

|                 |        |     |    |        |       |        |                        |             |
|-----------------|--------|-----|----|--------|-------|--------|------------------------|-------------|
| 20              | 64QAM  | 50  | 24 | 15.58  | 15.64 | 15.44  |                        |             |
| 20              | 64QAM  | 50  | 50 | 15.49  | 15.55 | 15.47  |                        |             |
| 20              | 64QAM  | 100 | 0  | 15.63  | 15.64 | 15.61  |                        |             |
| 20              | 256QAM | 1   | 0  | 15.55  | 15.54 | 15.47  | 16.9                   | 0           |
| 20              | 256QAM | 1   | 49 | 15.56  | 15.57 | 15.44  |                        |             |
| 20              | 256QAM | 1   | 99 | 15.62  | 15.67 | 15.61  |                        |             |
| 20              | 256QAM | 50  | 0  | 15.54  | 15.57 | 15.47  | 16.9                   | 0           |
| 20              | 256QAM | 50  | 24 | 15.47  | 15.52 | 15.41  |                        |             |
| 20              | 256QAM | 50  | 50 | 15.55  | 15.67 | 15.64  |                        |             |
| 20              | 256QAM | 100 | 0  | 15.40  | 15.64 | 15.50  |                        |             |
| Channel         |        |     |    | 20825  | 21100 | 21375  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 2507.5 | 2535  | 2562.5 |                        |             |
| 15              | QPSK   | 1   | 0  | 15.62  | 15.78 | 15.72  | 16.9                   | 0           |
| 15              | QPSK   | 1   | 37 | 15.59  | 15.83 | 15.62  |                        |             |
| 15              | QPSK   | 1   | 74 | 15.59  | 15.69 | 15.69  |                        |             |
| 15              | QPSK   | 36  | 0  | 15.68  | 15.74 | 15.52  | 16.9                   | 0           |
| 15              | QPSK   | 36  | 20 | 15.65  | 15.70 | 15.59  |                        |             |
| 15              | QPSK   | 36  | 39 | 15.45  | 15.50 | 15.28  |                        |             |
| 15              | QPSK   | 75  | 0  | 15.55  | 15.68 | 15.52  |                        |             |
| 15              | 16QAM  | 1   | 0  | 15.62  | 15.67 | 15.45  | 16.9                   | 0           |
| 15              | 16QAM  | 1   | 37 | 15.53  | 15.61 | 15.42  |                        |             |
| 15              | 16QAM  | 1   | 74 | 15.66  | 15.67 | 15.52  |                        |             |
| 15              | 16QAM  | 36  | 0  | 15.50  | 15.62 | 15.46  | 16.9                   | 0           |
| 15              | 16QAM  | 36  | 20 | 15.42  | 15.63 | 15.39  |                        |             |
| 15              | 16QAM  | 36  | 39 | 15.64  | 15.70 | 15.59  |                        |             |
| 15              | 16QAM  | 75  | 0  | 15.60  | 15.60 | 15.44  |                        |             |
| 15              | 64QAM  | 1   | 0  | 15.50  | 15.56 | 15.46  | 16.9                   | 0           |
| 15              | 64QAM  | 1   | 37 | 15.62  | 15.76 | 15.71  |                        |             |
| 15              | 64QAM  | 1   | 74 | 15.45  | 15.45 | 15.54  |                        |             |
| 15              | 64QAM  | 36  | 0  | 15.51  | 15.56 | 15.45  | 16.9                   | 0           |
| 15              | 64QAM  | 36  | 20 | 15.46  | 15.50 | 15.30  |                        |             |
| 15              | 64QAM  | 36  | 39 | 15.44  | 15.49 | 15.33  |                        |             |
| 15              | 64QAM  | 75  | 0  | 15.50  | 15.48 | 15.49  |                        |             |
| 15              | 256QAM | 1   | 0  | 15.50  | 15.49 | 15.39  | 16.9                   | 0           |
| 15              | 256QAM | 1   | 37 | 15.51  | 15.50 | 15.37  |                        |             |
| 15              | 256QAM | 1   | 74 | 15.50  | 15.63 | 15.53  |                        |             |
| 15              | 256QAM | 36  | 0  | 15.49  | 15.44 | 15.35  | 16.9                   | 0           |
| 15              | 256QAM | 36  | 20 | 15.42  | 15.41 | 15.30  |                        |             |
| 15              | 256QAM | 36  | 39 | 15.48  | 15.52 | 15.50  |                        |             |
| 15              | 256QAM | 75  | 0  | 15.26  | 15.59 | 15.34  |                        |             |
| Channel         |        |     |    | 20800  | 21100 | 21400  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 2505   | 2535  | 2565   |                        |             |
| 10              | QPSK   | 1   | 0  | 15.61  | 15.85 | 15.68  | 16.9                   | 0           |
| 10              | QPSK   | 1   | 25 | 15.69  | 15.82 | 15.63  |                        |             |
| 10              | QPSK   | 1   | 49 | 15.59  | 15.73 | 15.61  |                        |             |
| 10              | QPSK   | 25  | 0  | 15.62  | 15.69 | 15.53  | 16.9                   | 0           |
| 10              | QPSK   | 25  | 12 | 15.65  | 15.60 | 15.65  |                        |             |
| 10              | QPSK   | 25  | 25 | 15.43  | 15.55 | 15.35  |                        |             |
| 10              | QPSK   | 50  | 0  | 15.60  | 15.60 | 15.61  |                        |             |
| 10              | 16QAM  | 1   | 0  | 15.66  | 15.76 | 15.51  | 16.9                   | 0           |
| 10              | 16QAM  | 1   | 25 | 15.51  | 15.62 | 15.47  |                        |             |
| 10              | 16QAM  | 1   | 49 | 15.72  | 15.71 | 15.47  |                        |             |
| 10              | 16QAM  | 25  | 0  | 15.43  | 15.59 | 15.47  | 16.9                   | 0           |
| 10              | 16QAM  | 25  | 12 | 15.48  | 15.59 | 15.44  |                        |             |
| 10              | 16QAM  | 25  | 25 | 15.60  | 15.68 | 15.53  |                        |             |
| 10              | 16QAM  | 50  | 0  | 15.63  | 15.58 | 15.50  |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 10              | 64QAM  | 1  | 0  | 15.45  | 15.49 | 15.47  | 16.9                   | 0           |
| 10              | 64QAM  | 1  | 25 | 15.57  | 15.68 | 15.77  |                        |             |
| 10              | 64QAM  | 1  | 49 | 15.47  | 15.45 | 15.54  |                        |             |
| 10              | 64QAM  | 25 | 0  | 15.48  | 15.60 | 15.52  | 16.9                   | 0           |
| 10              | 64QAM  | 25 | 12 | 15.46  | 15.53 | 15.31  |                        |             |
| 10              | 64QAM  | 25 | 25 | 15.38  | 15.39 | 15.35  |                        |             |
| 10              | 64QAM  | 50 | 0  | 15.57  | 15.52 | 15.50  | 16.9                   | 0           |
| 10              | 256QAM | 1  | 0  | 15.44  | 15.43 | 15.40  |                        |             |
| 10              | 256QAM | 1  | 25 | 15.51  | 15.51 | 15.32  |                        |             |
| 10              | 256QAM | 1  | 49 | 15.46  | 15.59 | 15.52  | 16.9                   | 0           |
| 10              | 256QAM | 25 | 0  | 15.41  | 15.51 | 15.40  |                        |             |
| 10              | 256QAM | 25 | 12 | 15.33  | 15.39 | 15.27  |                        |             |
| 10              | 256QAM | 25 | 25 | 15.46  | 15.59 | 15.58  | 16.9                   | 0           |
| 10              | 256QAM | 50 | 0  | 15.32  | 15.55 | 15.36  |                        |             |
| Channel         |        |    |    | 20775  | 21100 | 21425  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2535  | 2567.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 15.70  | 15.85 | 15.73  | 16.9                   | 0           |
| 5               | QPSK   | 1  | 12 | 15.69  | 15.76 | 15.65  |                        |             |
| 5               | QPSK   | 1  | 24 | 15.59  | 15.73 | 15.62  |                        |             |
| 5               | QPSK   | 12 | 0  | 15.57  | 15.72 | 15.51  | 16.9                   | 0           |
| 5               | QPSK   | 12 | 7  | 15.66  | 15.61 | 15.61  |                        |             |
| 5               | QPSK   | 12 | 13 | 15.42  | 15.57 | 15.28  |                        |             |
| 5               | QPSK   | 25 | 0  | 15.63  | 15.67 | 15.61  | 16.9                   | 0           |
| 5               | 16QAM  | 1  | 0  | 15.58  | 15.73 | 15.54  |                        |             |
| 5               | 16QAM  | 1  | 12 | 15.47  | 15.61 | 15.46  |                        |             |
| 5               | 16QAM  | 1  | 24 | 15.62  | 15.69 | 15.49  | 16.9                   | 0           |
| 5               | 16QAM  | 12 | 0  | 15.44  | 15.54 | 15.46  |                        |             |
| 5               | 16QAM  | 12 | 7  | 15.47  | 15.56 | 15.48  |                        |             |
| 5               | 16QAM  | 12 | 13 | 15.65  | 15.68 | 15.54  | 16.9                   | 0           |
| 5               | 16QAM  | 25 | 0  | 15.53  | 15.57 | 15.44  |                        |             |
| 5               | 64QAM  | 1  | 0  | 15.52  | 15.51 | 15.44  |                        |             |
| 5               | 64QAM  | 1  | 12 | 15.58  | 15.78 | 15.74  | 16.9                   | 0           |
| 5               | 64QAM  | 1  | 24 | 15.44  | 15.48 | 15.45  |                        |             |
| 5               | 64QAM  | 12 | 0  | 15.47  | 15.60 | 15.42  |                        |             |
| 5               | 64QAM  | 12 | 7  | 15.43  | 15.52 | 15.36  | 16.9                   | 0           |
| 5               | 64QAM  | 12 | 13 | 15.38  | 15.43 | 15.38  |                        |             |
| 5               | 64QAM  | 25 | 0  | 15.53  | 15.50 | 15.52  |                        |             |
| 5               | 256QAM | 1  | 0  | 15.43  | 15.48 | 15.41  | 16.9                   | 0           |
| 5               | 256QAM | 1  | 12 | 15.49  | 15.49 | 15.34  |                        |             |
| 5               | 256QAM | 1  | 24 | 15.52  | 15.57 | 15.56  |                        |             |
| 5               | 256QAM | 12 | 0  | 15.47  | 15.43 | 15.42  | 16.9                   | 0           |
| 5               | 256QAM | 12 | 7  | 15.41  | 15.48 | 15.32  |                        |             |
| 5               | 256QAM | 12 | 13 | 15.44  | 15.57 | 15.57  |                        |             |
| 5               | 256QAM | 25 | 0  | 15.35  | 15.59 | 15.44  | 16.9                   | 0           |

| Band 30 Ant3 DSI2 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 27710                 |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 2310                  |                          |                        |                     |          |
| 10                | QPSK       | 1       | 0         |                       | 15.48                    |                        | 16.2                | 0        |
| 10                | QPSK       | 1       | 25        |                       | 15.45                    |                        |                     |          |
| 10                | QPSK       | 1       | 49        |                       | 15.29                    |                        |                     |          |
| 10                | QPSK       | 25      | 0         |                       | 15.35                    |                        | 16.2                | 0        |
| 10                | QPSK       | 25      | 12        |                       | 15.32                    |                        |                     |          |
| 10                | QPSK       | 25      | 25        |                       | 15.13                    |                        |                     |          |
| 10                | QPSK       | 50      | 0         |                       | 15.31                    |                        | 16.2                | 0        |
| 10                | 16QAM      | 1       | 0         |                       | 15.33                    |                        |                     |          |
| 10                | 16QAM      | 1       | 25        |                       | 15.24                    |                        |                     |          |
| 10                | 16QAM      | 1       | 49        |                       | 15.35                    |                        | 16.2                | 0        |
| 10                | 16QAM      | 25      | 0         |                       | 15.30                    |                        |                     |          |
| 10                | 16QAM      | 25      | 12        |                       | 15.31                    |                        |                     |          |
| 10                | 16QAM      | 25      | 25        |                       | 15.38                    |                        | 16.2                | 0        |
| 10                | 16QAM      | 50      | 0         |                       | 15.28                    |                        |                     |          |
| 10                | 64QAM      | 1       | 0         |                       | 15.26                    |                        |                     |          |
| 10                | 64QAM      | 1       | 25        |                       | 15.38                    |                        | 16.2                | 0        |
| 10                | 64QAM      | 1       | 49        |                       | 15.19                    |                        |                     |          |
| 10                | 64QAM      | 25      | 0         |                       | 15.31                    |                        |                     |          |
| 10                | 64QAM      | 25      | 12        |                       | 15.17                    |                        | 16.2                | 0        |
| 10                | 64QAM      | 25      | 25        |                       | 15.10                    |                        |                     |          |
| 10                | 64QAM      | 50      | 0         |                       | 15.20                    |                        |                     |          |
| 10                | 256QAM     | 1       | 0         |                       | 15.16                    |                        | 16.2                | 0        |
| 10                | 256QAM     | 1       | 25        |                       | 15.13                    |                        |                     |          |
| 10                | 256QAM     | 1       | 49        |                       | 15.32                    |                        |                     |          |
| 10                | 256QAM     | 25      | 0         |                       | 15.17                    |                        | 16.2                | 0        |
| 10                | 256QAM     | 25      | 12        |                       | 15.11                    |                        |                     |          |
| 10                | 256QAM     | 25      | 25        |                       | 15.27                    |                        |                     |          |
| 10                | 256QAM     | 50      | 0         |                       | 15.13                    |                        |                     |          |
| Channel           |            |         |           | 27685                 | 27710                    | 27735                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 2307.5                | 2310                     | 2312.5                 |                     |          |
| 5                 | QPSK       | 1       | 0         | 15.35                 | 15.43                    | 15.35                  | 16.2                | 0        |
| 5                 | QPSK       | 1       | 12        | 15.36                 | 15.42                    | 15.33                  |                     |          |
| 5                 | QPSK       | 1       | 24        | 15.25                 | 15.35                    | 15.26                  |                     |          |
| 5                 | QPSK       | 12      | 0         | 15.38                 | 15.44                    | 15.21                  | 16.2                | 0        |
| 5                 | QPSK       | 12      | 7         | 15.31                 | 15.37                    | 15.30                  |                     |          |
| 5                 | QPSK       | 12      | 13        | 15.00                 | 15.21                    | 15.08                  |                     |          |
| 5                 | QPSK       | 25      | 0         | 15.20                 | 15.33                    | 15.25                  | 16.2                | 0        |
| 5                 | 16QAM      | 1       | 0         | 15.22                 | 15.29                    | 15.26                  |                     |          |
| 5                 | 16QAM      | 1       | 12        | 15.11                 | 15.28                    | 15.11                  |                     |          |
| 5                 | 16QAM      | 1       | 24        | 15.29                 | 15.41                    | 15.18                  | 16.2                | 0        |
| 5                 | 16QAM      | 12      | 0         | 15.19                 | 15.32                    | 15.17                  |                     |          |
| 5                 | 16QAM      | 12      | 7         | 15.13                 | 15.27                    | 15.18                  |                     |          |
| 5                 | 16QAM      | 12      | 13        | 15.28                 | 15.44                    | 15.20                  | 16.2                | 0        |
| 5                 | 16QAM      | 25      | 0         | 15.23                 | 15.33                    | 15.10                  |                     |          |
| 5                 | 64QAM      | 1       | 0         | 15.13                 | 15.19                    | 15.12                  |                     |          |
| 5                 | 64QAM      | 1       | 12        | 15.22                 | 15.43                    | 15.37                  | 16.2                | 0        |
| 5                 | 64QAM      | 1       | 24        | 15.20                 | 15.16                    | 15.20                  |                     |          |
| 5                 | 64QAM      | 12      | 0         | 15.16                 | 15.26                    | 15.15                  |                     |          |
| 5                 | 64QAM      | 12      | 7         | 15.14                 | 15.20                    | 15.08                  | 16.2                | 0        |
| 5                 | 64QAM      | 12      | 13        | 15.01                 | 15.09                    | 15.08                  |                     |          |

|   |        |    |    |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|------|---|
| 5 | 64QAM  | 25 | 0  | 15.15 | 15.24 | 15.17 | 16.2 | 0 |
| 5 | 256QAM | 1  | 0  | 15.14 | 15.17 | 15.13 |      |   |
| 5 | 256QAM | 1  | 12 | 15.05 | 15.22 | 15.03 |      |   |
| 5 | 256QAM | 1  | 24 | 15.19 | 15.26 | 15.17 |      |   |
| 5 | 256QAM | 12 | 0  | 15.13 | 15.12 | 15.12 | 16.2 | 0 |
| 5 | 256QAM | 12 | 7  | 15.10 | 15.10 | 15.03 |      |   |
| 5 | 256QAM | 12 | 13 | 15.08 | 15.20 | 15.24 |      |   |
| 5 | 256QAM | 25 | 0  | 15.06 | 15.15 | 15.08 |      |   |

| Band 2 Ant5 DSI2 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 18700                 | 18900                    | 19100                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20               | QPSK       | 1       | 0         | 23.46                 | 23.62                    | 23.50                  | 24.4                | 0        |
| 20               | QPSK       | 1       | 49        | 23.49                 | 23.57                    | 23.43                  |                     |          |
| 20               | QPSK       | 1       | 99        | 23.40                 | 23.52                    | 23.46                  |                     |          |
| 20               | QPSK       | 50      | 0         | 22.46                 | 22.51                    | 22.46                  | 24                  | 0.4      |
| 20               | QPSK       | 50      | 24        | 22.31                 | 22.45                    | 22.37                  |                     |          |
| 20               | QPSK       | 50      | 50        | 22.36                 | 22.41                    | 22.30                  |                     |          |
| 20               | QPSK       | 100     | 0         | 22.46                 | 22.54                    | 22.39                  |                     |          |
| 20               | 16QAM      | 1       | 0         | 22.28                 | 22.40                    | 22.27                  | 24                  | 0.4      |
| 20               | 16QAM      | 1       | 49        | 22.18                 | 22.33                    | 22.26                  |                     |          |
| 20               | 16QAM      | 1       | 99        | 22.24                 | 22.31                    | 22.25                  |                     |          |
| 20               | 16QAM      | 50      | 0         | 21.60                 | 21.65                    | 21.52                  | 23                  | 1.4      |
| 20               | 16QAM      | 50      | 24        | 21.43                 | 21.56                    | 21.44                  |                     |          |
| 20               | 16QAM      | 50      | 50        | 21.46                 | 21.54                    | 21.44                  |                     |          |
| 20               | 16QAM      | 100     | 0         | 21.47                 | 21.54                    | 21.43                  |                     |          |
| 20               | 64QAM      | 1       | 0         | 21.61                 | 21.77                    | 21.68                  | 23                  | 1.4      |
| 20               | 64QAM      | 1       | 49        | 21.66                 | 21.75                    | 21.60                  |                     |          |
| 20               | 64QAM      | 1       | 99        | 21.61                 | 21.71                    | 21.58                  |                     |          |
| 20               | 64QAM      | 50      | 0         | 20.40                 | 20.54                    | 20.40                  | 22                  | 2.4      |
| 20               | 64QAM      | 50      | 24        | 20.37                 | 20.51                    | 20.39                  |                     |          |
| 20               | 64QAM      | 50      | 50        | 20.42                 | 20.52                    | 20.42                  |                     |          |
| 20               | 64QAM      | 100     | 0         | 20.45                 | 20.55                    | 20.48                  |                     |          |
| 20               | 256QAM     | 1       | 0         | 18.48                 | 18.64                    | 18.52                  | 20                  | 4.4      |
| 20               | 256QAM     | 1       | 49        | 18.50                 | 18.57                    | 18.51                  |                     |          |
| 20               | 256QAM     | 1       | 99        | 18.43                 | 18.56                    | 18.44                  |                     |          |
| 20               | 256QAM     | 50      | 0         | 18.52                 | 18.58                    | 18.53                  | 20                  | 4.4      |
| 20               | 256QAM     | 50      | 24        | 18.42                 | 18.54                    | 18.39                  |                     |          |
| 20               | 256QAM     | 50      | 50        | 18.42                 | 18.51                    | 18.41                  |                     |          |
| 20               | 256QAM     | 100     | 0         | 18.46                 | 18.61                    | 18.49                  |                     |          |
| Channel          |            |         |           | 18675                 | 18900                    | 19125                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |
| 15               | QPSK       | 1       | 0         | 23.31                 | 23.53                    | 23.43                  | 24.4                | 0        |
| 15               | QPSK       | 1       | 37        | 23.43                 | 23.42                    | 23.33                  |                     |          |
| 15               | QPSK       | 1       | 74        | 23.34                 | 23.45                    | 23.36                  |                     |          |
| 15               | QPSK       | 36      | 0         | 22.34                 | 22.40                    | 22.31                  | 24                  | 0.4      |
| 15               | QPSK       | 36      | 20        | 22.18                 | 22.32                    | 22.29                  |                     |          |
| 15               | QPSK       | 36      | 39        | 22.22                 | 22.26                    | 22.24                  |                     |          |
| 15               | QPSK       | 75      | 0         | 22.38                 | 22.45                    | 22.29                  |                     |          |
| 15               | 16QAM      | 1       | 0         | 22.20                 | 22.28                    | 22.21                  | 24                  | 0.4      |
| 15               | 16QAM      | 1       | 37        | 22.05                 | 22.25                    | 22.17                  |                     |          |
| 15               | 16QAM      | 1       | 74        | 22.19                 | 22.18                    | 22.12                  |                     |          |
| 15               | 16QAM      | 36      | 0         | 21.50                 | 21.53                    | 21.40                  | 23                  | 1.4      |
| 15               | 16QAM      | 36      | 20        | 21.38                 | 21.47                    | 21.31                  |                     |          |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 16QAM  | 36 | 39 | 21.30  | 21.48 | 21.36  |                        |             |
| 15              | 16QAM  | 75 | 0  | 21.33  | 21.47 | 21.33  |                        |             |
| 15              | 64QAM  | 1  | 0  | 21.52  | 21.62 | 21.54  |                        |             |
| 15              | 64QAM  | 1  | 37 | 21.59  | 21.69 | 21.55  | 23                     | 1.4         |
| 15              | 64QAM  | 1  | 74 | 21.54  | 21.65 | 21.42  |                        |             |
| 15              | 64QAM  | 36 | 0  | 20.25  | 20.47 | 20.33  |                        |             |
| 15              | 64QAM  | 36 | 20 | 20.33  | 20.45 | 20.24  | 22                     | 2.4         |
| 15              | 64QAM  | 36 | 39 | 20.27  | 20.48 | 20.34  |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.38  | 20.46 | 20.36  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.35  | 18.56 | 18.37  | 20                     | 4.4         |
| 15              | 256QAM | 1  | 37 | 18.35  | 18.53 | 18.36  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.31  | 18.42 | 18.31  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.41  | 18.47 | 18.41  | 20                     | 4.4         |
| 15              | 256QAM | 36 | 20 | 18.37  | 18.42 | 18.23  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.30  | 18.42 | 18.26  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.39  | 18.46 | 18.35  |                        |             |
| Channel         |        |    |    | 18650  | 18900 | 19150  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1855   | 1880  | 1905   |                        |             |
| 10              | QPSK   | 1  | 0  | 23.42  | 23.49 | 23.37  | 24.4                   | 0           |
| 10              | QPSK   | 1  | 25 | 23.34  | 23.45 | 23.36  |                        |             |
| 10              | QPSK   | 1  | 49 | 23.36  | 23.43 | 23.40  |                        |             |
| 10              | QPSK   | 25 | 0  | 22.35  | 22.36 | 22.40  | 24                     | 0.4         |
| 10              | QPSK   | 25 | 12 | 22.25  | 22.29 | 22.29  |                        |             |
| 10              | QPSK   | 25 | 25 | 22.26  | 22.32 | 22.23  |                        |             |
| 10              | QPSK   | 50 | 0  | 22.32  | 22.39 | 22.31  |                        |             |
| 10              | 16QAM  | 1  | 0  | 22.17  | 22.25 | 22.22  | 24                     | 0.4         |
| 10              | 16QAM  | 1  | 25 | 22.05  | 22.28 | 22.17  |                        |             |
| 10              | 16QAM  | 1  | 49 | 22.19  | 22.25 | 22.21  |                        |             |
| 10              | 16QAM  | 25 | 0  | 21.50  | 21.59 | 21.37  | 23                     | 1.4         |
| 10              | 16QAM  | 25 | 12 | 21.28  | 21.47 | 21.31  |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.35  | 21.42 | 21.32  |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.36  | 21.45 | 21.28  |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.53  | 21.73 | 21.54  | 23                     | 1.4         |
| 10              | 64QAM  | 1  | 25 | 21.62  | 21.63 | 21.49  |                        |             |
| 10              | 64QAM  | 1  | 49 | 21.45  | 21.59 | 21.46  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.30  | 20.39 | 20.36  | 22                     | 2.4         |
| 10              | 64QAM  | 25 | 12 | 20.33  | 20.46 | 20.32  |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.27  | 20.39 | 20.34  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.38  | 20.50 | 20.40  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.38  | 18.59 | 18.41  | 20                     | 4.4         |
| 10              | 256QAM | 1  | 25 | 18.45  | 18.44 | 18.38  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.36  | 18.44 | 18.30  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.46  | 18.53 | 18.41  |                        |             |
| 10              | 256QAM | 25 | 12 | 18.37  | 18.45 | 18.32  | 20                     | 4.4         |
| 10              | 256QAM | 25 | 25 | 18.30  | 18.40 | 18.37  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.30  | 18.48 | 18.41  |                        |             |
| Channel         |        |    |    | 18625  | 18900 | 19175  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1852.5 | 1880  | 1907.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.34  | 23.54 | 23.35  | 24.4                   | 0           |
| 5               | QPSK   | 1  | 12 | 23.44  | 23.45 | 23.32  |                        |             |
| 5               | QPSK   | 1  | 24 | 23.33  | 23.43 | 23.32  |                        |             |
| 5               | QPSK   | 12 | 0  | 22.32  | 22.43 | 22.40  | 24                     | 0.4         |
| 5               | QPSK   | 12 | 7  | 22.16  | 22.40 | 22.30  |                        |             |
| 5               | QPSK   | 12 | 13 | 22.23  | 22.37 | 22.22  |                        |             |
| 5               | QPSK   | 25 | 0  | 22.41  | 22.42 | 22.35  |                        |             |
| 5               | 16QAM  | 1  | 0  | 22.12  | 22.28 | 22.15  | 24                     | 0.4         |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 5               | 16QAM  | 1  | 12 | 22.11  | 22.29 | 22.19  |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.09  | 22.27 | 22.12  |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.47  | 21.53 | 21.47  |                        |             |
| 5               | 16QAM  | 12 | 7  | 21.39  | 21.44 | 21.34  | 23                     | 1.4         |
| 5               | 16QAM  | 12 | 13 | 21.37  | 21.43 | 21.36  |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.36  | 21.44 | 21.37  |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.49  | 21.70 | 21.53  | 23                     | 1.4         |
| 5               | 64QAM  | 1  | 12 | 21.55  | 21.60 | 21.45  |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.53  | 21.58 | 21.48  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.31  | 20.39 | 20.34  | 22                     | 2.4         |
| 5               | 64QAM  | 12 | 7  | 20.28  | 20.37 | 20.27  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.36  | 20.40 | 20.29  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.38  | 20.44 | 20.41  | 20                     | 4.4         |
| 5               | 256QAM | 1  | 0  | 18.44  | 18.60 | 18.36  |                        |             |
| 5               | 256QAM | 1  | 12 | 18.42  | 18.44 | 18.43  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.28  | 18.51 | 18.33  | 20                     | 4.4         |
| 5               | 256QAM | 12 | 0  | 18.37  | 18.47 | 18.43  |                        |             |
| 5               | 256QAM | 12 | 7  | 18.28  | 18.43 | 18.25  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.31  | 18.41 | 18.35  | 20                     | 4.4         |
| 5               | 256QAM | 25 | 0  | 18.38  | 18.52 | 18.33  |                        |             |
| Channel         |        |    |    | 18615  | 18900 | 19185  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1851.5 | 1880  | 1908.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 23.36  | 23.49 | 23.39  | 24.4                   | 0           |
| 3               | QPSK   | 1  | 8  | 23.37  | 23.49 | 23.29  |                        |             |
| 3               | QPSK   | 1  | 14 | 23.28  | 23.38 | 23.37  |                        |             |
| 3               | QPSK   | 8  | 0  | 22.41  | 22.45 | 22.37  | 24                     | 0.4         |
| 3               | QPSK   | 8  | 4  | 22.26  | 22.31 | 22.31  |                        |             |
| 3               | QPSK   | 8  | 7  | 22.27  | 22.29 | 22.25  |                        |             |
| 3               | QPSK   | 15 | 0  | 22.41  | 22.44 | 22.28  | 24                     | 0.4         |
| 3               | 16QAM  | 1  | 0  | 22.15  | 22.30 | 22.13  |                        |             |
| 3               | 16QAM  | 1  | 8  | 22.08  | 22.18 | 22.15  |                        |             |
| 3               | 16QAM  | 1  | 14 | 22.09  | 22.16 | 22.14  | 23                     | 1.4         |
| 3               | 16QAM  | 8  | 0  | 21.52  | 21.59 | 21.47  |                        |             |
| 3               | 16QAM  | 8  | 4  | 21.30  | 21.40 | 21.37  |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.32  | 21.46 | 21.37  | 23                     | 1.4         |
| 3               | 16QAM  | 15 | 0  | 21.36  | 21.48 | 21.37  |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.47  | 21.66 | 21.63  |                        |             |
| 3               | 64QAM  | 1  | 8  | 21.51  | 21.69 | 21.54  | 22                     | 2.4         |
| 3               | 64QAM  | 1  | 14 | 21.54  | 21.63 | 21.53  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.28  | 20.39 | 20.34  |                        |             |
| 3               | 64QAM  | 8  | 4  | 20.31  | 20.46 | 20.28  | 20                     | 4.4         |
| 3               | 64QAM  | 8  | 7  | 20.37  | 20.46 | 20.30  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.33  | 20.47 | 20.33  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.39  | 18.50 | 18.45  | 20                     | 4.4         |
| 3               | 256QAM | 1  | 8  | 18.40  | 18.46 | 18.43  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.33  | 18.46 | 18.36  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.43  | 18.50 | 18.45  | 20                     | 4.4         |
| 3               | 256QAM | 8  | 4  | 18.32  | 18.41 | 18.30  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.30  | 18.37 | 18.35  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.36  | 18.53 | 18.42  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |    |    | 18607  | 18900 | 19193  |                        |             |
| Frequency (MHz) |        |    |    | 1850.7 | 1880  | 1909.3 | 24.4                   | 0           |
| 1.4             | QPSK   | 1  | 0  | 23.39  | 23.58 | 23.45  |                        |             |
| 1.4             | QPSK   | 1  | 3  | 23.36  | 23.43 | 23.29  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 23.27  | 23.46 | 23.31  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 23.39  | 23.58 | 23.45  |                        |             |

|     |        |   |   |       |       |       |    |     |
|-----|--------|---|---|-------|-------|-------|----|-----|
| 1.4 | QPSK   | 3 | 1 | 23.36 | 23.43 | 23.29 | 24 | 0.4 |
| 1.4 | QPSK   | 3 | 3 | 23.27 | 23.46 | 23.31 |    |     |
| 1.4 | QPSK   | 6 | 0 | 22.39 | 22.39 | 22.37 |    |     |
| 1.4 | 16QAM  | 1 | 0 | 22.39 | 22.39 | 22.37 | 24 | 0.4 |
| 1.4 | 16QAM  | 1 | 3 | 22.17 | 22.32 | 22.23 |    |     |
| 1.4 | 16QAM  | 1 | 5 | 22.31 | 22.25 | 22.15 |    |     |
| 1.4 | 16QAM  | 3 | 0 | 22.39 | 22.39 | 22.37 |    |     |
| 1.4 | 16QAM  | 3 | 1 | 22.17 | 22.32 | 22.23 |    |     |
| 1.4 | 16QAM  | 3 | 3 | 22.31 | 22.25 | 22.15 | 23 | 1.4 |
| 1.4 | 16QAM  | 6 | 0 | 21.45 | 21.55 | 21.43 |    |     |
| 1.4 | 64QAM  | 1 | 0 | 21.34 | 21.42 | 21.39 | 23 | 1.4 |
| 1.4 | 64QAM  | 1 | 3 | 21.38 | 21.39 | 21.29 |    |     |
| 1.4 | 64QAM  | 1 | 5 | 21.33 | 21.43 | 21.29 |    |     |
| 1.4 | 64QAM  | 3 | 0 | 21.52 | 21.63 | 21.58 |    |     |
| 1.4 | 64QAM  | 3 | 1 | 21.59 | 21.61 | 21.46 |    |     |
| 1.4 | 64QAM  | 3 | 3 | 21.49 | 21.65 | 21.44 | 22 | 2.4 |
| 1.4 | 64QAM  | 6 | 0 | 20.25 | 20.50 | 20.29 |    |     |
| 1.4 | 256QAM | 1 | 0 | 18.32 | 18.46 | 18.29 | 20 | 4.4 |
| 1.4 | 256QAM | 1 | 3 | 18.38 | 18.43 | 18.37 |    |     |
| 1.4 | 256QAM | 1 | 5 | 18.40 | 18.45 | 18.43 |    |     |
| 1.4 | 256QAM | 3 | 0 | 18.26 | 18.44 | 18.24 |    |     |
| 1.4 | 256QAM | 3 | 1 | 18.37 | 18.44 | 18.37 |    |     |
| 1.4 | 256QAM | 3 | 3 | 18.41 | 18.48 | 18.33 | 20 | 4.4 |
| 1.4 | 256QAM | 6 | 0 | 18.31 | 18.51 | 18.42 |    |     |

| Band 4 Ant5 DSI2 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 20050                 | 20175                    | 20300                  |                     |          |
| Frequency (MHz)  |            |         |           | 1720                  | 1732.5                   | 1745                   |                     |          |
| 20               | QPSK       | 1       | 0         | 23.33                 | 23.51                    | 23.39                  | 25                  | 0        |
| 20               | QPSK       | 1       | 49        | 23.42                 | 23.49                    | 23.31                  |                     |          |
| 20               | QPSK       | 1       | 99        | 23.27                 | 23.38                    | 23.31                  |                     |          |
| 20               | QPSK       | 50      | 0         | 22.38                 | 22.47                    | 22.40                  | 24                  | 1        |
| 20               | QPSK       | 50      | 24        | 22.26                 | 22.40                    | 22.32                  |                     |          |
| 20               | QPSK       | 50      | 50        | 22.28                 | 22.37                    | 22.23                  |                     |          |
| 20               | QPSK       | 100     | 0         | 22.38                 | 22.41                    | 22.28                  |                     |          |
| 20               | 16QAM      | 1       | 0         | 22.23                 | 22.30                    | 22.14                  | 24                  | 1        |
| 20               | 16QAM      | 1       | 49        | 22.14                 | 22.22                    | 22.11                  |                     |          |
| 20               | 16QAM      | 1       | 99        | 22.16                 | 22.17                    | 22.19                  |                     |          |
| 20               | 16QAM      | 50      | 0         | 21.49                 | 21.53                    | 21.45                  | 23                  | 2        |
| 20               | 16QAM      | 50      | 24        | 21.37                 | 21.43                    | 21.35                  |                     |          |
| 20               | 16QAM      | 50      | 50        | 21.32                 | 21.43                    | 21.35                  |                     |          |
| 20               | 16QAM      | 100     | 0         | 21.39                 | 21.45                    | 21.38                  |                     |          |
| 20               | 64QAM      | 1       | 0         | 21.50                 | 21.69                    | 21.61                  | 23                  | 2        |
| 20               | 64QAM      | 1       | 49        | 21.50                 | 21.60                    | 21.56                  |                     |          |
| 20               | 64QAM      | 1       | 99        | 21.53                 | 21.65                    | 21.43                  |                     |          |
| 20               | 64QAM      | 50      | 0         | 20.29                 | 20.46                    | 20.27                  | 22                  | 3        |
| 20               | 64QAM      | 50      | 24        | 20.24                 | 20.42                    | 20.29                  |                     |          |
| 20               | 64QAM      | 50      | 50        | 20.34                 | 20.41                    | 20.35                  |                     |          |
| 20               | 64QAM      | 100     | 0         | 20.40                 | 20.47                    | 20.42                  |                     |          |
| 20               | 256QAM     | 1       | 0         | 18.43                 | 18.58                    | 18.36                  | 20                  | 5        |
| 20               | 256QAM     | 1       | 49        | 18.45                 | 18.49                    | 18.41                  |                     |          |
| 20               | 256QAM     | 1       | 99        | 18.37                 | 18.44                    | 18.38                  |                     |          |
| 20               | 256QAM     | 50      | 0         | 18.47                 | 18.47                    | 18.39                  | 20                  | 5        |
| 20               | 256QAM     | 50      | 24        | 18.26                 | 18.40                    | 18.25                  |                     |          |

|                 |        |     |    |        |        |        |                        |             |
|-----------------|--------|-----|----|--------|--------|--------|------------------------|-------------|
| 20              | 256QAM | 50  | 50 | 18.29  | 18.39  | 18.28  |                        |             |
| 20              | 256QAM | 100 | 0  | 18.42  | 18.50  | 18.41  |                        |             |
| Channel         |        |     |    | 20025  | 20175  | 20325  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 1717.5 | 1732.5 | 1747.5 |                        |             |
| 15              | QPSK   | 1   | 0  | 23.23  | 23.39  | 23.29  | 25                     | 0           |
| 15              | QPSK   | 1   | 37 | 23.39  | 23.34  | 23.22  |                        |             |
| 15              | QPSK   | 1   | 74 | 23.22  | 23.32  | 23.26  |                        |             |
| 15              | QPSK   | 36  | 0  | 22.26  | 22.27  | 22.15  | 24                     | 1           |
| 15              | QPSK   | 36  | 20 | 22.13  | 22.27  | 22.18  |                        |             |
| 15              | QPSK   | 36  | 39 | 22.09  | 22.10  | 22.08  |                        |             |
| 15              | QPSK   | 75  | 0  | 22.34  | 22.34  | 22.22  |                        |             |
| 15              | 16QAM  | 1   | 0  | 22.08  | 22.13  | 22.11  | 24                     | 1           |
| 15              | 16QAM  | 1   | 37 | 22.11  | 22.15  | 22.02  |                        |             |
| 15              | 16QAM  | 1   | 74 | 22.10  | 22.10  | 22.01  |                        |             |
| 15              | 16QAM  | 36  | 0  | 21.35  | 21.39  | 21.29  | 23                     | 2           |
| 15              | 16QAM  | 36  | 20 | 21.29  | 21.37  | 21.20  |                        |             |
| 15              | 16QAM  | 36  | 39 | 21.22  | 21.34  | 21.27  |                        |             |
| 15              | 16QAM  | 75  | 0  | 21.20  | 21.41  | 21.17  |                        |             |
| 15              | 64QAM  | 1   | 0  | 21.37  | 21.49  | 21.46  | 23                     | 2           |
| 15              | 64QAM  | 1   | 37 | 21.48  | 21.62  | 21.45  |                        |             |
| 15              | 64QAM  | 1   | 74 | 21.45  | 21.58  | 21.37  |                        |             |
| 15              | 64QAM  | 36  | 0  | 20.10  | 20.38  | 20.26  | 22                     | 3           |
| 15              | 64QAM  | 36  | 20 | 20.20  | 20.31  | 20.13  |                        |             |
| 15              | 64QAM  | 36  | 39 | 20.21  | 20.33  | 20.18  |                        |             |
| 15              | 64QAM  | 75  | 0  | 20.27  | 20.34  | 20.27  |                        |             |
| 15              | 256QAM | 1   | 0  | 18.25  | 18.41  | 18.22  | 20                     | 5           |
| 15              | 256QAM | 1   | 37 | 18.22  | 18.45  | 18.30  |                        |             |
| 15              | 256QAM | 1   | 74 | 18.21  | 18.38  | 18.19  |                        |             |
| 15              | 256QAM | 36  | 0  | 18.35  | 18.41  | 18.34  | 20                     | 5           |
| 15              | 256QAM | 36  | 20 | 18.26  | 18.36  | 18.09  |                        |             |
| 15              | 256QAM | 36  | 39 | 18.15  | 18.30  | 18.21  |                        |             |
| 15              | 256QAM | 75  | 0  | 18.24  | 18.37  | 18.31  |                        |             |
| Channel         |        |     |    | 20000  | 20175  | 20350  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 1715   | 1732.5 | 1750   |                        |             |
| 10              | QPSK   | 1   | 0  | 23.27  | 23.35  | 23.28  | 25                     | 0           |
| 10              | QPSK   | 1   | 25 | 23.27  | 23.35  | 23.32  |                        |             |
| 10              | QPSK   | 1   | 49 | 23.28  | 23.29  | 23.31  |                        |             |
| 10              | QPSK   | 25  | 0  | 22.27  | 22.28  | 22.28  | 24                     | 1           |
| 10              | QPSK   | 25  | 12 | 22.13  | 22.16  | 22.21  |                        |             |
| 10              | QPSK   | 25  | 25 | 22.22  | 22.22  | 22.16  |                        |             |
| 10              | QPSK   | 50  | 0  | 22.16  | 22.32  | 22.23  |                        |             |
| 10              | 16QAM  | 1   | 0  | 22.04  | 22.19  | 22.16  | 24                     | 1           |
| 10              | 16QAM  | 1   | 25 | 22.19  | 22.17  | 22.03  |                        |             |
| 10              | 16QAM  | 1   | 49 | 22.15  | 22.15  | 22.08  |                        |             |
| 10              | 16QAM  | 25  | 0  | 21.44  | 21.50  | 21.22  | 23                     | 2           |
| 10              | 16QAM  | 25  | 12 | 21.15  | 21.37  | 21.26  |                        |             |
| 10              | 16QAM  | 25  | 25 | 21.22  | 21.33  | 21.26  |                        |             |
| 10              | 16QAM  | 50  | 0  | 21.28  | 21.37  | 21.19  |                        |             |
| 10              | 64QAM  | 1   | 0  | 21.39  | 21.58  | 21.46  | 23                     | 2           |
| 10              | 64QAM  | 1   | 25 | 21.57  | 21.54  | 21.34  |                        |             |
| 10              | 64QAM  | 1   | 49 | 21.36  | 21.48  | 21.40  |                        |             |
| 10              | 64QAM  | 25  | 0  | 20.16  | 20.24  | 20.22  | 22                     | 3           |
| 10              | 64QAM  | 25  | 12 | 20.21  | 20.30  | 20.22  |                        |             |
| 10              | 64QAM  | 25  | 25 | 20.14  | 20.24  | 20.25  |                        |             |
| 10              | 64QAM  | 50  | 0  | 20.29  | 20.34  | 20.29  |                        |             |
| 10              | 256QAM | 1   | 0  | 18.29  | 18.44  | 18.26  | 20                     | 5           |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 10              | 256QAM | 1  | 25 | 18.40  | 18.31  | 18.23  | 20                     | 5           |
| 10              | 256QAM | 1  | 49 | 18.31  | 18.37  | 18.19  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.34  | 18.46  | 18.32  |                        |             |
| 10              | 256QAM | 25 | 12 | 18.29  | 18.34  | 18.19  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.22  | 18.32  | 18.22  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.24  | 18.37  | 18.34  |                        |             |
| Channel         |        |    |    | 19975  | 20175  | 20375  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1712.5 | 1732.5 | 1752.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.27  | 23.48  | 23.25  | 25                     | 0           |
| 5               | QPSK   | 1  | 12 | 23.36  | 23.30  | 23.21  |                        |             |
| 5               | QPSK   | 1  | 24 | 23.21  | 23.27  | 23.28  |                        |             |
| 5               | QPSK   | 12 | 0  | 22.25  | 22.38  | 22.25  | 24                     | 1           |
| 5               | QPSK   | 12 | 7  | 22.04  | 22.33  | 22.20  |                        |             |
| 5               | QPSK   | 12 | 13 | 22.10  | 22.25  | 22.10  |                        |             |
| 5               | QPSK   | 25 | 0  | 22.36  | 22.36  | 22.21  |                        |             |
| 5               | 16QAM  | 1  | 0  | 22.21  | 22.23  | 22.02  | 24                     | 1           |
| 5               | 16QAM  | 1  | 12 | 22.04  | 22.23  | 22.09  |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.00  | 22.22  | 22.01  |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.36  | 21.48  | 21.35  | 23                     | 2           |
| 5               | 16QAM  | 12 | 7  | 21.26  | 21.36  | 21.28  |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.32  | 21.37  | 21.25  |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.23  | 21.32  | 21.24  |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.41  | 21.55  | 21.40  | 23                     | 2           |
| 5               | 64QAM  | 1  | 12 | 21.45  | 21.54  | 21.40  |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.39  | 21.42  | 21.34  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.16  | 20.27  | 20.25  | 22                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.22  | 20.30  | 20.21  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.28  | 20.26  | 20.13  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.29  | 20.38  | 20.35  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.34  | 18.55  | 18.25  | 20                     | 5           |
| 5               | 256QAM | 1  | 12 | 18.34  | 18.29  | 18.29  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.24  | 18.45  | 18.21  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.28  | 18.32  | 18.32  | 20                     | 5           |
| 5               | 256QAM | 12 | 7  | 18.22  | 18.32  | 18.12  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.24  | 18.27  | 18.20  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.23  | 18.46  | 18.17  |                        |             |
| Channel         |        |    |    | 19965  | 20175  | 20385  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1711.5 | 1732.5 | 1753.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 23.25  | 23.43  | 23.30  | 25                     | 0           |
| 3               | QPSK   | 1  | 8  | 23.22  | 23.37  | 23.19  |                        |             |
| 3               | QPSK   | 1  | 14 | 23.13  | 23.25  | 23.22  |                        |             |
| 3               | QPSK   | 8  | 0  | 22.28  | 22.36  | 22.24  | 24                     | 1           |
| 3               | QPSK   | 8  | 4  | 22.18  | 22.21  | 22.26  |                        |             |
| 3               | QPSK   | 8  | 7  | 22.14  | 22.21  | 22.16  |                        |             |
| 3               | QPSK   | 15 | 0  | 22.29  | 22.36  | 22.17  |                        |             |
| 3               | 16QAM  | 1  | 0  | 22.05  | 22.22  | 22.08  | 24                     | 1           |
| 3               | 16QAM  | 1  | 8  | 22.25  | 22.06  | 22.07  |                        |             |
| 3               | 16QAM  | 1  | 14 | 22.16  | 22.03  | 22.03  |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.46  | 21.43  | 21.43  | 23                     | 2           |
| 3               | 16QAM  | 8  | 4  | 21.19  | 21.26  | 21.25  |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.23  | 21.40  | 21.28  |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.21  | 21.34  | 21.32  |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.40  | 21.59  | 21.55  | 23                     | 2           |
| 3               | 64QAM  | 1  | 8  | 21.39  | 21.56  | 21.48  |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.43  | 21.53  | 21.46  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.15  | 20.32  | 20.22  | 22                     | 3           |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 3               | 64QAM  | 8  | 4  | 20.22  | 20.32  | 20.15  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.27  | 20.38  | 20.19  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.23  | 20.33  | 20.23  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.33  | 18.35  | 18.33  | 20                     | 5           |
| 3               | 256QAM | 1  | 8  | 18.27  | 18.36  | 18.33  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.25  | 18.34  | 18.24  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.38  | 18.41  | 18.35  | 20                     | 5           |
| 3               | 256QAM | 8  | 4  | 18.25  | 18.36  | 18.25  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.23  | 18.24  | 18.31  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.23  | 18.48  | 18.31  |                        |             |
| Channel         |        |    |    | 19957  | 20175  | 20393  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1710.7 | 1732.5 | 1754.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 23.32  | 23.47  | 23.32  | 25                     | 0           |
| 1.4             | QPSK   | 1  | 3  | 23.27  | 23.37  | 23.17  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 23.16  | 23.31  | 23.15  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 23.34  | 23.44  | 23.31  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 23.22  | 23.28  | 23.14  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 23.13  | 23.41  | 23.23  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 22.24  | 22.28  | 22.33  | 24                     | 1           |
| 1.4             | 16QAM  | 1  | 0  | 22.35  | 22.33  | 22.33  | 24                     | 1           |
| 1.4             | 16QAM  | 1  | 3  | 22.09  | 22.17  | 22.18  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 22.20  | 22.09  | 22.03  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 22.23  | 22.32  | 22.31  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 22.01  | 22.19  | 22.13  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 22.19  | 22.12  | 22.03  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 21.41  | 21.44  | 21.39  | 23                     | 2           |
| 1.4             | 64QAM  | 1  | 0  | 21.23  | 21.30  | 21.31  | 23                     | 2           |
| 1.4             | 64QAM  | 1  | 3  | 21.33  | 21.24  | 21.21  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 21.26  | 21.33  | 21.16  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 21.45  | 21.54  | 21.51  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 21.46  | 21.47  | 21.41  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 21.37  | 21.58  | 21.32  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.18  | 20.44  | 20.25  | 22                     | 3           |
| 1.4             | 256QAM | 1  | 0  | 18.27  | 18.35  | 18.18  | 20                     | 5           |
| 1.4             | 256QAM | 1  | 3  | 18.23  | 18.35  | 18.26  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.32  | 18.34  | 18.37  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.14  | 18.32  | 18.15  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.30  | 18.36  | 18.26  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.32  | 18.38  | 18.20  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.19  | 18.40  | 18.37  | 20                     | 5           |

| Band 66 Ant5 DSI2 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 132072                | 132322                   | 132572                 |                     |          |
| Frequency (MHz)   |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |
| 20                | QPSK       | 1       | 0         | 23.19                 | 23.45                    | 23.24                  | 25                  | 0        |
| 20                | QPSK       | 1       | 49        | 23.34                 | 23.43                    | 23.22                  |                     |          |
| 20                | QPSK       | 1       | 99        | 23.22                 | 23.33                    | 23.20                  |                     |          |
| 20                | QPSK       | 50      | 0         | 22.24                 | 22.36                    | 22.27                  | 24                  | 1        |
| 20                | QPSK       | 50      | 24        | 22.10                 | 22.24                    | 22.19                  |                     |          |
| 20                | QPSK       | 50      | 50        | 22.18                 | 22.32                    | 22.09                  |                     |          |
| 20                | QPSK       | 100     | 0         | 22.22                 | 22.28                    | 22.14                  |                     |          |
| 20                | 16QAM      | 1       | 0         | 22.14                 | 22.23                    | 22.03                  | 24                  | 1        |
| 20                | 16QAM      | 1       | 49        | 22.06                 | 22.09                    | 22.05                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 22.08                 | 22.07                    | 22.12                  |                     |          |
| 20                | 16QAM      | 50      | 0         | 21.38                 | 21.38                    | 21.37                  | 23                  | 2        |
| 20                | 16QAM      | 50      | 24        | 21.28                 | 21.36                    | 21.24                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 21.18                 | 21.31                    | 21.20                  |                     |          |
| 20                | 16QAM      | 100     | 0         | 21.29                 | 21.38                    | 21.26                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 21.43                 | 21.54                    | 21.50                  | 23                  | 2        |
| 20                | 64QAM      | 1       | 49        | 21.46                 | 21.49                    | 21.41                  |                     |          |
| 20                | 64QAM      | 1       | 99        | 21.43                 | 21.61                    | 21.29                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 20.19                 | 20.33                    | 20.17                  | 22                  | 3        |
| 20                | 64QAM      | 50      | 24        | 20.10                 | 20.31                    | 20.25                  |                     |          |
| 20                | 64QAM      | 50      | 50        | 20.29                 | 20.33                    | 20.21                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 20.32                 | 20.42                    | 20.37                  |                     |          |
| 20                | 256QAM     | 1       | 0         | 18.38                 | 18.42                    | 18.30                  | 20                  | 5        |
| 20                | 256QAM     | 1       | 49        | 18.39                 | 18.43                    | 18.34                  |                     |          |
| 20                | 256QAM     | 1       | 99        | 18.30                 | 18.31                    | 18.23                  |                     |          |
| 20                | 256QAM     | 50      | 0         | 18.34                 | 18.32                    | 18.27                  | 20                  | 5        |
| 20                | 256QAM     | 50      | 24        | 18.14                 | 18.35                    | 18.14                  |                     |          |
| 20                | 256QAM     | 50      | 50        | 18.19                 | 18.26                    | 18.21                  |                     |          |
| 20                | 256QAM     | 100     | 0         | 18.37                 | 18.36                    | 18.29                  |                     |          |
| Channel           |            |         |           | 132047                | 132322                   | 132597                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |
| 15                | QPSK       | 1       | 0         | 23.17                 | 23.34                    | 23.17                  | 25                  | 0        |
| 15                | QPSK       | 1       | 37        | 23.32                 | 23.21                    | 23.09                  |                     |          |
| 15                | QPSK       | 1       | 74        | 23.14                 | 23.19                    | 23.16                  |                     |          |
| 15                | QPSK       | 36      | 0         | 22.22                 | 22.11                    | 22.04                  | 24                  | 1        |
| 15                | QPSK       | 36      | 20        | 22.01                 | 22.13                    | 22.05                  |                     |          |
| 15                | QPSK       | 36      | 39        | 22.01                 | 22.11                    | 22.09                  |                     |          |
| 15                | QPSK       | 75      | 0         | 22.29                 | 22.21                    | 22.11                  |                     |          |
| 15                | 16QAM      | 1       | 0         | 22.16                 | 22.04                    | 22.04                  | 24                  | 1        |
| 15                | 16QAM      | 1       | 37        | 22.11                 | 22.06                    | 22.08                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 22.00                 | 22.00                    | 22.18                  |                     |          |
| 15                | 16QAM      | 36      | 0         | 21.22                 | 21.33                    | 21.24                  | 23                  | 2        |
| 15                | 16QAM      | 36      | 20        | 21.20                 | 21.33                    | 21.14                  |                     |          |
| 15                | 16QAM      | 36      | 39        | 21.11                 | 21.21                    | 21.17                  |                     |          |
| 15                | 16QAM      | 75      | 0         | 21.14                 | 21.28                    | 21.02                  |                     |          |
| 15                | 64QAM      | 1       | 0         | 21.24                 | 21.34                    | 21.35                  | 23                  | 2        |
| 15                | 64QAM      | 1       | 37        | 21.32                 | 21.51                    | 21.37                  |                     |          |
| 15                | 64QAM      | 1       | 74        | 21.36                 | 21.51                    | 21.22                  |                     |          |
| 15                | 64QAM      | 36      | 0         | 20.15                 | 20.22                    | 20.18                  | 22                  | 3        |
| 15                | 64QAM      | 36      | 20        | 20.14                 | 20.21                    | 20.03                  |                     |          |
| 15                | 64QAM      | 36      | 39        | 20.09                 | 20.28                    | 20.14                  |                     |          |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 64QAM  | 75 | 0  | 20.15  | 20.20  | 20.15  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.12  | 18.35  | 18.11  | 20                     | 5           |
| 15              | 256QAM | 1  | 37 | 18.14  | 18.33  | 18.21  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.15  | 18.30  | 18.04  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.28  | 18.28  | 18.21  | 20                     | 5           |
| 15              | 256QAM | 36 | 20 | 18.15  | 18.29  | 18.29  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.06  | 18.25  | 18.07  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.19  | 18.32  | 18.26  |                        |             |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                        |             |
| 10              | QPSK   | 1  | 0  | 23.13  | 23.28  | 23.19  | 25                     | 0           |
| 10              | QPSK   | 1  | 25 | 23.12  | 23.29  | 23.18  |                        |             |
| 10              | QPSK   | 1  | 49 | 23.16  | 23.21  | 23.20  |                        |             |
| 10              | QPSK   | 25 | 0  | 22.15  | 22.15  | 22.15  | 24                     | 1           |
| 10              | QPSK   | 25 | 12 | 22.02  | 22.04  | 22.12  |                        |             |
| 10              | QPSK   | 25 | 25 | 22.09  | 22.14  | 22.07  |                        |             |
| 10              | QPSK   | 50 | 0  | 22.03  | 22.25  | 22.08  | 24                     | 1           |
| 10              | 16QAM  | 1  | 0  | 22.13  | 22.15  | 22.08  |                        |             |
| 10              | 16QAM  | 1  | 25 | 22.15  | 22.10  | 22.14  |                        |             |
| 10              | 16QAM  | 1  | 49 | 22.03  | 22.00  | 22.02  | 23                     | 2           |
| 10              | 16QAM  | 25 | 0  | 21.34  | 21.34  | 21.08  |                        |             |
| 10              | 16QAM  | 25 | 12 | 21.00  | 21.27  | 21.20  |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.11  | 21.20  | 21.17  | 23                     | 2           |
| 10              | 16QAM  | 50 | 0  | 21.21  | 21.33  | 21.05  |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.26  | 21.53  | 21.38  |                        |             |
| 10              | 64QAM  | 1  | 25 | 21.51  | 21.41  | 21.21  | 23                     | 2           |
| 10              | 64QAM  | 1  | 49 | 21.29  | 21.36  | 21.26  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.03  | 20.09  | 20.07  |                        |             |
| 10              | 64QAM  | 25 | 12 | 20.11  | 20.17  | 20.14  | 22                     | 3           |
| 10              | 64QAM  | 25 | 25 | 20.00  | 20.20  | 20.17  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.17  | 20.22  | 20.18  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.18  | 18.40  | 18.13  | 20                     | 5           |
| 10              | 256QAM | 1  | 25 | 18.30  | 18.18  | 18.10  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.18  | 18.28  | 18.07  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.24  | 18.34  | 18.22  | 20                     | 5           |
| 10              | 256QAM | 25 | 12 | 18.14  | 18.27  | 18.04  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.14  | 18.25  | 18.11  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.14  | 18.21  | 18.26  |                        |             |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.20  | 23.41  | 23.21  | 25                     | 0           |
| 5               | QPSK   | 1  | 12 | 23.22  | 23.25  | 23.06  |                        |             |
| 5               | QPSK   | 1  | 24 | 23.16  | 23.14  | 23.19  |                        |             |
| 5               | QPSK   | 12 | 0  | 22.30  | 22.49  | 22.38  | 24                     | 1           |
| 5               | QPSK   | 12 | 7  | 22.14  | 22.47  | 22.30  |                        |             |
| 5               | QPSK   | 12 | 13 | 22.22  | 22.37  | 22.19  |                        |             |
| 5               | QPSK   | 25 | 0  | 22.41  | 22.43  | 22.36  | 24                     | 1           |
| 5               | 16QAM  | 1  | 0  | 22.05  | 22.37  | 22.10  |                        |             |
| 5               | 16QAM  | 1  | 12 | 22.10  | 22.32  | 22.15  |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.15  | 22.33  | 22.11  | 23                     | 2           |
| 5               | 16QAM  | 12 | 0  | 21.26  | 21.34  | 21.23  |                        |             |
| 5               | 16QAM  | 12 | 7  | 21.14  | 21.28  | 21.18  |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.18  | 21.31  | 21.10  | 23                     | 2           |
| 5               | 16QAM  | 25 | 0  | 21.17  | 21.23  | 21.14  |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.37  | 21.51  | 21.34  |                        |             |
| 5               | 64QAM  | 1  | 12 | 21.35  | 21.46  | 21.30  |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 5               | 64QAM  | 1  | 24 | 21.30  | 21.26  | 21.30  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.07  | 20.16  | 20.21  | 22                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.12  | 20.23  | 20.07  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.17  | 20.14  | 20.05  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.17  | 20.22  | 20.25  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.22  | 18.40  | 18.19  | 20                     | 5           |
| 5               | 256QAM | 1  | 12 | 18.26  | 18.21  | 18.19  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.17  | 18.41  | 18.08  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.18  | 18.17  | 18.25  | 20                     | 5           |
| 5               | 256QAM | 12 | 7  | 18.14  | 18.28  | 18.01  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.14  | 18.18  | 18.07  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.11  | 18.41  | 18.11  |                        |             |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 23.18  | 23.28  | 23.25  | 25                     | 0           |
| 3               | QPSK   | 1  | 8  | 23.17  | 23.27  | 23.10  |                        |             |
| 3               | QPSK   | 1  | 14 | 23.09  | 23.13  | 23.10  |                        |             |
| 3               | QPSK   | 8  | 0  | 22.23  | 22.23  | 22.12  | 24                     | 1           |
| 3               | QPSK   | 8  | 4  | 22.13  | 22.09  | 22.15  |                        |             |
| 3               | QPSK   | 8  | 7  | 22.02  | 22.08  | 22.04  |                        |             |
| 3               | QPSK   | 15 | 0  | 22.22  | 22.29  | 22.10  |                        |             |
| 3               | 16QAM  | 1  | 0  | 22.38  | 22.48  | 22.39  | 24                     | 1           |
| 3               | 16QAM  | 1  | 8  | 22.30  | 22.40  | 22.35  |                        |             |
| 3               | 16QAM  | 1  | 14 | 22.23  | 22.36  | 22.27  |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.36  | 21.30  | 21.38  | 23                     | 2           |
| 3               | 16QAM  | 8  | 4  | 21.03  | 21.21  | 21.12  |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.18  | 21.29  | 21.24  |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.12  | 21.28  | 21.26  |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.36  | 21.45  | 21.43  | 23                     | 2           |
| 3               | 64QAM  | 1  | 8  | 21.25  | 21.45  | 21.36  |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.36  | 21.43  | 21.30  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.01  | 20.23  | 20.10  | 22                     | 3           |
| 3               | 64QAM  | 8  | 4  | 20.16  | 20.24  | 20.06  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.19  | 20.25  | 20.13  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.08  | 20.19  | 20.17  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.20  | 18.28  | 18.25  | 20                     | 5           |
| 3               | 256QAM | 1  | 8  | 18.11  | 18.22  | 18.22  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.18  | 18.24  | 18.12  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.27  | 18.29  | 18.20  | 20                     | 5           |
| 3               | 256QAM | 8  | 4  | 18.15  | 18.22  | 18.12  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.15  | 18.09  | 18.24  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.12  | 18.36  | 18.16  |                        |             |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 23.20  | 23.37  | 23.20  | 25                     | 0           |
| 1.4             | QPSK   | 1  | 3  | 23.14  | 23.32  | 23.12  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 23.05  | 23.21  | 23.08  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 23.24  | 23.30  | 23.18  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 23.13  | 23.13  | 23.04  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 23.07  | 23.26  | 23.11  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 22.20  | 22.18  | 22.19  | 24                     | 1           |
| 1.4             | 16QAM  | 1  | 0  | 22.48  | 22.38  | 22.43  | 24                     | 1           |
| 1.4             | 16QAM  | 1  | 3  | 22.16  | 22.29  | 22.34  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 22.32  | 22.14  | 22.10  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 22.37  | 22.46  | 22.41  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 22.11  | 22.35  | 22.25  |                        |             |



|     |        |   |   |       |       |       |    |   |
|-----|--------|---|---|-------|-------|-------|----|---|
| 1.4 | 16QAM  | 3 | 3 | 22.34 | 22.20 | 22.11 |    |   |
| 1.4 | 16QAM  | 6 | 0 | 21.55 | 21.51 | 21.46 | 23 | 2 |
| 1.4 | 64QAM  | 1 | 0 | 21.12 | 21.15 | 21.25 | 23 | 2 |
| 1.4 | 64QAM  | 1 | 3 | 21.18 | 21.09 | 21.10 |    |   |
| 1.4 | 64QAM  | 1 | 5 | 21.14 | 21.19 | 21.01 |    |   |
| 1.4 | 64QAM  | 3 | 0 | 21.30 | 21.40 | 21.38 |    |   |
| 1.4 | 64QAM  | 3 | 1 | 21.36 | 21.42 | 21.35 |    |   |
| 1.4 | 64QAM  | 3 | 3 | 21.33 | 21.46 | 21.22 |    |   |
| 1.4 | 64QAM  | 6 | 0 | 20.08 | 20.39 | 20.18 | 22 | 3 |
| 1.4 | 256QAM | 1 | 0 | 18.11 | 18.19 | 18.08 | 20 | 5 |
| 1.4 | 256QAM | 1 | 3 | 18.11 | 18.23 | 18.19 |    |   |
| 1.4 | 256QAM | 1 | 5 | 18.25 | 18.19 | 18.26 |    |   |
| 1.4 | 256QAM | 3 | 0 | 18.00 | 18.25 | 18.01 |    |   |
| 1.4 | 256QAM | 3 | 1 | 18.21 | 18.24 | 18.18 |    |   |
| 1.4 | 256QAM | 3 | 3 | 18.24 | 18.29 | 18.08 |    |   |
| 1.4 | 256QAM | 6 | 0 | 18.14 | 18.28 | 18.22 | 20 | 5 |

### Reduced Power Mode for DSI 4

| Band 5 Ant0 DSI4 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 20450                 | 20525                    | 20600                  |                     |          |
| Frequency (MHz)  |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10               | QPSK       | 1       | 0         | 22.59                 | 22.65                    | 22.52                  | 23.6                | 0        |
| 10               | QPSK       | 1       | 25        | 22.49                 | 22.54                    | 22.53                  |                     |          |
| 10               | QPSK       | 1       | 49        | 22.51                 | 22.55                    | 22.57                  |                     |          |
| 10               | QPSK       | 25      | 0         | 22.52                 | 22.53                    | 22.49                  | 23.6                | 0        |
| 10               | QPSK       | 25      | 12        | 22.37                 | 22.42                    | 22.48                  |                     |          |
| 10               | QPSK       | 25      | 25        | 22.45                 | 22.48                    | 22.45                  |                     |          |
| 10               | QPSK       | 50      | 0         | 22.51                 | 22.52                    | 22.38                  | 23.6                | 0        |
| 10               | 16QAM      | 1       | 0         | 22.54                 | 22.54                    | 22.42                  |                     |          |
| 10               | 16QAM      | 1       | 25        | 22.46                 | 22.49                    | 22.44                  |                     |          |
| 10               | 16QAM      | 1       | 49        | 22.40                 | 22.41                    | 22.47                  | 23                  | 0.6      |
| 10               | 16QAM      | 25      | 0         | 21.81                 | 21.78                    | 21.71                  |                     |          |
| 10               | 16QAM      | 25      | 12        | 21.58                 | 21.61                    | 21.63                  |                     |          |
| 10               | 16QAM      | 25      | 25        | 21.77                 | 21.72                    | 21.65                  | 23                  | 0.6      |
| 10               | 16QAM      | 50      | 0         | 21.65                 | 21.65                    | 21.62                  |                     |          |
| 10               | 64QAM      | 1       | 0         | 21.84                 | 21.80                    | 21.73                  |                     |          |
| 10               | 64QAM      | 1       | 25        | 21.90                 | 21.81                    | 21.83                  | 22                  | 1.6      |
| 10               | 64QAM      | 1       | 49        | 21.76                 | 21.76                    | 21.75                  |                     |          |
| 10               | 64QAM      | 25      | 0         | 21.91                 | 21.82                    | 21.72                  |                     |          |
| 10               | 64QAM      | 25      | 12        | 21.79                 | 21.76                    | 21.78                  | 20                  | 3.6      |
| 10               | 64QAM      | 25      | 25        | 21.70                 | 21.69                    | 21.70                  |                     |          |
| 10               | 64QAM      | 50      | 0         | 21.71                 | 21.74                    | 21.76                  |                     |          |
| 10               | 256QAM     | 1       | 0         | 18.64                 | 18.67                    | 18.64                  | 20                  | 3.6      |
| 10               | 256QAM     | 1       | 25        | 18.51                 | 18.61                    | 18.65                  |                     |          |
| 10               | 256QAM     | 1       | 49        | 18.52                 | 18.54                    | 18.62                  |                     |          |
| 10               | 256QAM     | 25      | 0         | 18.74                 | 18.76                    | 18.66                  | 20                  | 3.6      |
| 10               | 256QAM     | 25      | 12        | 18.61                 | 18.69                    | 18.76                  |                     |          |
| 10               | 256QAM     | 25      | 25        | 18.71                 | 18.71                    | 18.80                  |                     |          |
| 10               | 256QAM     | 50      | 0         | 18.62                 | 18.65                    | 18.61                  | 23.6                | 0        |
| 5                | QPSK       | 1       | 0         | 22.49                 | 22.60                    | 22.44                  |                     |          |
| 5                | QPSK       | 1       | 12        | 22.41                 | 22.44                    | 22.45                  |                     |          |
| 5                | QPSK       | 1       | 24        | 22.45                 | 22.43                    | 22.43                  | 23.6                | 0        |
| 5                | QPSK       | 12      | 0         | 22.41                 | 22.41                    | 22.44                  |                     |          |
| 5                | QPSK       | 12      | 7         | 22.25                 | 22.32                    | 22.35                  |                     |          |
| 5                | QPSK       | 12      | 13        | 22.32                 | 22.43                    | 22.43                  | 23.6                | 0        |
| 5                | QPSK       | 25      | 0         | 22.47                 | 22.45                    | 22.27                  |                     |          |
| 5                | 16QAM      | 1       | 0         | 22.41                 | 22.42                    | 22.39                  |                     |          |
| 5                | 16QAM      | 1       | 12        | 22.43                 | 22.45                    | 22.36                  | 23                  | 0.6      |
| 5                | 16QAM      | 1       | 24        | 22.28                 | 22.39                    | 22.45                  |                     |          |
| 5                | 16QAM      | 12      | 0         | 21.67                 | 21.62                    | 21.69                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 5               | 16QAM  | 12 | 7  | 21.43 | 21.53 | 21.45 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.60 | 21.60 | 21.61 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.61 | 21.47 | 21.56 |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.79 | 21.67 | 21.63 | 23                     | 0.6         |
| 5               | 64QAM  | 1  | 12 | 21.80 | 21.70 | 21.67 |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.66 | 21.65 | 21.63 |                        |             |
| 5               | 64QAM  | 12 | 0  | 21.81 | 21.68 | 21.59 | 22                     | 1.6         |
| 5               | 64QAM  | 12 | 7  | 21.65 | 21.63 | 21.66 |                        |             |
| 5               | 64QAM  | 12 | 13 | 21.52 | 21.65 | 21.66 |                        |             |
| 5               | 64QAM  | 25 | 0  | 21.61 | 21.61 | 21.61 |                        |             |
| 5               | 256QAM | 1  | 0  | 18.50 | 18.65 | 18.47 | 20                     | 3.6         |
| 5               | 256QAM | 1  | 12 | 18.41 | 18.56 | 18.56 |                        |             |
| 5               | 256QAM | 1  | 24 | 18.48 | 18.40 | 18.56 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.70 | 18.67 | 18.53 | 20                     | 3.6         |
| 5               | 256QAM | 12 | 7  | 18.56 | 18.63 | 18.62 |                        |             |
| 5               | 256QAM | 12 | 13 | 18.69 | 18.56 | 18.66 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.53 | 18.49 | 18.54 |                        |             |
| Channel         |        |    |    | 20415 | 20525 | 20635 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 825.5 | 836.5 | 847.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 22.47 | 22.55 | 22.48 | 23.6                   | 0           |
| 3               | QPSK   | 1  | 8  | 22.36 | 22.40 | 22.43 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.44 | 22.52 | 22.49 |                        |             |
| 3               | QPSK   | 8  | 0  | 22.43 | 22.43 | 22.42 | 23.6                   | 0           |
| 3               | QPSK   | 8  | 4  | 22.28 | 22.28 | 22.34 |                        |             |
| 3               | QPSK   | 8  | 7  | 22.33 | 22.41 | 22.42 |                        |             |
| 3               | QPSK   | 15 | 0  | 22.45 | 22.44 | 22.36 |                        |             |
| 3               | 16QAM  | 1  | 0  | 22.50 | 22.52 | 22.37 | 23.6                   | 0           |
| 3               | 16QAM  | 1  | 8  | 22.37 | 22.36 | 22.35 |                        |             |
| 3               | 16QAM  | 1  | 14 | 22.29 | 22.37 | 22.40 |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.63 | 21.68 | 21.60 | 23                     | 0.6         |
| 3               | 16QAM  | 8  | 4  | 21.42 | 21.55 | 21.50 |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.63 | 21.66 | 21.57 |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.53 | 21.49 | 21.58 |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.79 | 21.71 | 21.57 | 23                     | 0.6         |
| 3               | 64QAM  | 1  | 8  | 21.87 | 21.73 | 21.69 |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.65 | 21.64 | 21.68 |                        |             |
| 3               | 64QAM  | 8  | 0  | 21.88 | 21.74 | 21.57 | 22                     | 1.6         |
| 3               | 64QAM  | 8  | 4  | 21.61 | 21.67 | 21.63 |                        |             |
| 3               | 64QAM  | 8  | 7  | 21.55 | 21.66 | 21.58 |                        |             |
| 3               | 64QAM  | 15 | 0  | 21.62 | 21.67 | 21.72 |                        |             |
| 3               | 256QAM | 1  | 0  | 18.58 | 18.60 | 18.57 | 20                     | 3.6         |
| 3               | 256QAM | 1  | 8  | 18.37 | 18.57 | 18.53 |                        |             |
| 3               | 256QAM | 1  | 14 | 18.36 | 18.37 | 18.52 |                        |             |
| 3               | 256QAM | 8  | 0  | 18.65 | 18.66 | 18.49 | 20                     | 3.6         |
| 3               | 256QAM | 8  | 4  | 18.46 | 18.52 | 18.62 |                        |             |
| 3               | 256QAM | 8  | 7  | 18.59 | 18.62 | 18.71 |                        |             |
| 3               | 256QAM | 15 | 0  | 18.56 | 18.53 | 18.49 |                        |             |

| Channel         |        |   |   | 20407 | 20525 | 20643 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|---|---|-------|-------|-------|------------------------|-------------|
| Frequency (MHz) |        |   |   | 824.7 | 836.5 | 848.3 |                        |             |
| 1.4             | QPSK   | 1 | 0 | 22.47 | 22.62 | 22.40 | 23.6                   | 0           |
| 1.4             | QPSK   | 1 | 3 | 22.46 | 22.41 | 22.50 |                        |             |
| 1.4             | QPSK   | 1 | 5 | 22.42 | 22.50 | 22.53 |                        |             |
| 1.4             | QPSK   | 3 | 0 | 22.57 | 22.62 | 22.39 |                        |             |
| 1.4             | QPSK   | 3 | 1 | 22.39 | 22.50 | 22.44 |                        |             |
| 1.4             | QPSK   | 3 | 3 | 22.38 | 22.49 | 22.46 |                        |             |
| 1.4             | QPSK   | 6 | 0 | 22.45 | 22.50 | 22.47 | 23.6                   | 0           |
| 1.4             | 16QAM  | 1 | 0 | 22.25 | 22.30 | 22.37 | 23.6                   | 0           |
| 1.4             | 16QAM  | 1 | 3 | 22.41 | 22.40 | 22.37 |                        |             |
| 1.4             | 16QAM  | 1 | 5 | 22.37 | 22.39 | 22.24 |                        |             |
| 1.4             | 16QAM  | 3 | 0 | 22.40 | 22.51 | 22.33 |                        |             |
| 1.4             | 16QAM  | 3 | 1 | 22.41 | 22.46 | 22.39 |                        |             |
| 1.4             | 16QAM  | 3 | 3 | 22.30 | 22.38 | 22.44 |                        |             |
| 1.4             | 16QAM  | 6 | 0 | 21.64 | 21.62 | 21.66 | 23                     | 0.6         |
| 1.4             | 64QAM  | 1 | 0 | 21.52 | 21.53 | 21.52 | 23                     | 0.6         |
| 1.4             | 64QAM  | 1 | 3 | 21.62 | 21.69 | 21.56 |                        |             |
| 1.4             | 64QAM  | 1 | 5 | 21.61 | 21.62 | 21.50 |                        |             |
| 1.4             | 64QAM  | 3 | 0 | 21.81 | 21.72 | 21.56 |                        |             |
| 1.4             | 64QAM  | 3 | 1 | 21.87 | 21.68 | 21.67 |                        |             |
| 1.4             | 64QAM  | 3 | 3 | 21.65 | 21.69 | 21.62 |                        |             |
| 1.4             | 64QAM  | 6 | 0 | 21.82 | 21.73 | 21.66 | 22                     | 1.6         |
| 1.4             | 256QAM | 1 | 0 | 18.44 | 18.59 | 18.67 | 20                     | 3.6         |
| 1.4             | 256QAM | 1 | 3 | 18.55 | 18.59 | 18.76 |                        |             |
| 1.4             | 256QAM | 1 | 5 | 18.51 | 18.59 | 18.56 |                        |             |
| 1.4             | 256QAM | 3 | 0 | 18.52 | 18.58 | 18.51 |                        |             |
| 1.4             | 256QAM | 3 | 1 | 18.45 | 18.52 | 18.61 |                        |             |
| 1.4             | 256QAM | 3 | 3 | 18.61 | 18.58 | 18.68 |                        |             |
| 1.4             | 256QAM | 6 | 0 | 18.47 | 18.51 | 18.54 | 20                     | 3.6         |

| Band 12 Ant0 DSI4 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 23060                    | 23095                       | 23130                     |                        |             |
| Frequency (MHz)   |            |         |           | 704                      | 707.5                       | 711                       | 25                     | 0           |
| 10                | QPSK       | 1       | 0         | 23.65                    | 23.89                       | 23.76                     |                        |             |
| 10                | QPSK       | 1       | 25        | 23.79                    | 23.84                       | 23.84                     |                        |             |
| 10                | QPSK       | 1       | 49        | 23.85                    | 23.79                       | 23.76                     | 24                     | 1           |
| 10                | QPSK       | 25      | 0         | 22.77                    | 22.85                       | 22.83                     |                        |             |
| 10                | QPSK       | 25      | 12        | 22.73                    | 22.80                       | 22.80                     |                        |             |
| 10                | QPSK       | 25      | 25        | 22.69                    | 22.73                       | 22.75                     |                        |             |
| 10                | QPSK       | 50      | 0         | 22.64                    | 22.81                       | 22.73                     | 24                     | 1           |
| 10                | 16QAM      | 1       | 0         | 23.28                    | 23.22                       | 23.14                     |                        |             |
| 10                | 16QAM      | 1       | 25        | 23.03                    | 23.04                       | 23.01                     |                        |             |
| 10                | 16QAM      | 1       | 49        | 23.15                    | 23.13                       | 23.07                     | 23                     | 2           |
| 10                | 16QAM      | 25      | 0         | 21.72                    | 21.70                       | 21.72                     |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 25 | 12 | 21.50 | 21.56 | 21.53 |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.59 | 21.69 | 21.71 |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.45 | 21.53 | 21.43 |                        |             |
| 10              | 64QAM  | 1  | 0  | 22.11 | 22.16 | 22.25 | 23                     | 2           |
| 10              | 64QAM  | 1  | 25 | 22.16 | 22.12 | 22.22 |                        |             |
| 10              | 64QAM  | 1  | 49 | 22.15 | 22.09 | 22.04 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.72 | 20.74 | 20.83 | 22                     | 3           |
| 10              | 64QAM  | 25 | 12 | 20.78 | 20.73 | 20.66 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.84 | 20.85 | 20.91 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.80 | 20.79 | 20.79 |                        |             |
| 10              | 256QAM | 1  | 0  | 19.41 | 19.34 | 19.38 | 20                     | 5           |
| 10              | 256QAM | 1  | 25 | 19.20 | 19.29 | 19.32 |                        |             |
| 10              | 256QAM | 1  | 49 | 19.41 | 19.40 | 19.31 |                        |             |
| 10              | 256QAM | 25 | 0  | 18.88 | 18.94 | 19.00 | 20                     | 5           |
| 10              | 256QAM | 25 | 12 | 18.90 | 18.85 | 18.75 |                        |             |
| 10              | 256QAM | 25 | 25 | 18.97 | 18.87 | 18.94 |                        |             |
| 10              | 256QAM | 50 | 0  | 18.82 | 18.87 | 18.95 |                        |             |
| Channel         |        |    |    | 23035 | 23095 | 23155 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 701.5 | 707.5 | 713.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.60 | 23.76 | 23.67 | 25                     | 0           |
| 5               | QPSK   | 1  | 12 | 23.64 | 23.75 | 23.70 |                        |             |
| 5               | QPSK   | 1  | 24 | 23.79 | 23.71 | 23.59 |                        |             |
| 5               | QPSK   | 12 | 0  | 22.69 | 22.63 | 22.80 | 24                     | 1           |
| 5               | QPSK   | 12 | 7  | 22.70 | 22.70 | 22.71 |                        |             |
| 5               | QPSK   | 12 | 13 | 22.64 | 22.60 | 22.63 |                        |             |
| 5               | QPSK   | 25 | 0  | 22.59 | 22.60 | 22.71 |                        |             |
| 5               | 16QAM  | 1  | 0  | 23.24 | 23.08 | 23.04 | 24                     | 1           |
| 5               | 16QAM  | 1  | 12 | 22.87 | 22.86 | 22.99 |                        |             |
| 5               | 16QAM  | 1  | 24 | 23.05 | 23.07 | 22.94 |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.61 | 21.61 | 21.55 | 23                     | 2           |
| 5               | 16QAM  | 12 | 7  | 21.41 | 21.54 | 21.45 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.55 | 21.58 | 21.59 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.40 | 21.49 | 21.40 |                        |             |
| 5               | 64QAM  | 1  | 0  | 22.03 | 22.01 | 22.15 | 23                     | 2           |
| 5               | 64QAM  | 1  | 12 | 22.07 | 21.98 | 22.14 |                        |             |
| 5               | 64QAM  | 1  | 24 | 22.12 | 22.05 | 21.99 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.66 | 20.58 | 20.68 | 22                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.66 | 20.57 | 20.61 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.66 | 20.82 | 20.75 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.65 | 20.76 | 20.66 |                        |             |
| 5               | 256QAM | 1  | 0  | 19.31 | 19.19 | 19.21 | 20                     | 5           |
| 5               | 256QAM | 1  | 12 | 19.13 | 19.15 | 19.27 |                        |             |
| 5               | 256QAM | 1  | 24 | 19.32 | 19.24 | 19.24 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.82 | 18.84 | 18.96 | 20                     | 5           |
| 5               | 256QAM | 12 | 7  | 18.77 | 18.78 | 18.59 |                        |             |
| 5               | 256QAM | 12 | 13 | 18.92 | 18.81 | 18.86 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.66 | 18.73 | 18.77 |                        |             |

| Channel         |        |    |    | 23025 | 23095 | 23165 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 700.5 | 707.5 | 714.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 23.48 | 23.71 | 23.70 | 25                     | 0           |
| 3               | QPSK   | 1  | 8  | 23.74 | 23.68 | 23.66 |                        |             |
| 3               | QPSK   | 1  | 14 | 23.73 | 23.63 | 23.61 |                        |             |
| 3               | QPSK   | 8  | 0  | 22.71 | 22.65 | 22.72 | 24                     | 1           |
| 3               | QPSK   | 8  | 4  | 22.62 | 22.74 | 22.76 |                        |             |
| 3               | QPSK   | 8  | 7  | 22.52 | 22.70 | 22.58 |                        |             |
| 3               | QPSK   | 15 | 0  | 22.56 | 22.55 | 22.61 | 24                     | 1           |
| 3               | 16QAM  | 1  | 0  | 23.16 | 23.04 | 23.09 |                        |             |
| 3               | 16QAM  | 1  | 8  | 22.86 | 22.96 | 22.99 |                        |             |
| 3               | 16QAM  | 1  | 14 | 23.13 | 22.95 | 22.96 | 23                     | 2           |
| 3               | 16QAM  | 8  | 0  | 21.66 | 21.55 | 21.56 |                        |             |
| 3               | 16QAM  | 8  | 4  | 21.36 | 21.45 | 21.46 |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.46 | 21.56 | 21.57 | 22                     | 3           |
| 3               | 16QAM  | 15 | 0  | 21.37 | 21.48 | 21.36 |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.98 | 22.10 | 22.18 |                        |             |
| 3               | 64QAM  | 1  | 8  | 22.08 | 22.10 | 22.19 | 23                     | 2           |
| 3               | 64QAM  | 1  | 14 | 21.97 | 22.01 | 21.99 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.67 | 20.61 | 20.66 |                        |             |
| 3               | 64QAM  | 8  | 4  | 20.62 | 20.58 | 20.55 | 22                     | 3           |
| 3               | 64QAM  | 8  | 7  | 20.75 | 20.79 | 20.76 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.76 | 20.68 | 20.63 |                        |             |
| 3               | 256QAM | 1  | 0  | 19.31 | 19.29 | 19.34 | 20                     | 5           |
| 3               | 256QAM | 1  | 8  | 19.10 | 19.17 | 19.16 |                        |             |
| 3               | 256QAM | 1  | 14 | 19.38 | 19.23 | 19.13 |                        |             |
| 3               | 256QAM | 8  | 0  | 18.80 | 18.90 | 18.95 | 20                     | 5           |
| 3               | 256QAM | 8  | 4  | 18.88 | 18.69 | 18.71 |                        |             |
| 3               | 256QAM | 8  | 7  | 18.82 | 18.84 | 18.87 |                        |             |
| 3               | 256QAM | 15 | 0  | 18.77 | 18.76 | 18.85 | 20                     | 5           |
| 3               | 256QAM | 15 | 0  | 18.77 | 18.76 | 18.85 |                        |             |
| Channel         |        |    |    | 23017 | 23095 | 23173 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 699.7 | 707.5 | 715.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 23.60 | 23.73 | 23.63 | 25                     | 0           |
| 1.4             | QPSK   | 1  | 3  | 23.72 | 23.74 | 23.73 |                        |             |
| 1.4             | QPSK   | 1  | 5  | 23.76 | 23.71 | 23.69 |                        |             |
| 1.4             | QPSK   | 3  | 0  | 23.49 | 23.79 | 23.58 |                        |             |
| 1.4             | QPSK   | 3  | 1  | 23.71 | 23.81 | 23.75 |                        |             |
| 1.4             | QPSK   | 3  | 3  | 23.76 | 23.69 | 23.69 | 24                     | 1           |
| 1.4             | QPSK   | 6  | 0  | 22.62 | 22.59 | 22.72 |                        |             |
| 1.4             | 16QAM  | 1  | 0  | 22.60 | 22.68 | 22.65 | 24                     | 1           |
| 1.4             | 16QAM  | 1  | 3  | 22.52 | 22.65 | 22.61 |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 22.51 | 22.58 | 22.55 |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 23.25 | 23.10 | 22.99 |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 22.99 | 22.94 | 22.99 |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 23.03 | 22.98 | 23.01 | 23                     | 2           |
| 1.4             | 16QAM  | 6  | 0  | 21.68 | 21.66 | 21.55 |                        |             |
| 1.4             | 64QAM  | 1  | 0  | 21.46 | 21.40 | 21.42 | 23                     | 2           |

|     |        |   |   |       |       |       |    |   |
|-----|--------|---|---|-------|-------|-------|----|---|
| 1.4 | 64QAM  | 1 | 3 | 21.48 | 21.52 | 21.63 |    |   |
| 1.4 | 64QAM  | 1 | 5 | 21.42 | 21.45 | 21.36 |    |   |
| 1.4 | 64QAM  | 3 | 0 | 22.03 | 22.06 | 22.08 |    |   |
| 1.4 | 64QAM  | 3 | 1 | 22.02 | 21.99 | 22.06 |    |   |
| 1.4 | 64QAM  | 3 | 3 | 22.06 | 21.92 | 21.96 |    |   |
| 1.4 | 64QAM  | 6 | 0 | 20.57 | 20.58 | 20.77 | 22 | 3 |
| 1.4 | 256QAM | 1 | 0 | 19.31 | 19.21 | 19.21 | 20 | 5 |
| 1.4 | 256QAM | 1 | 3 | 19.11 | 19.18 | 19.27 |    |   |
| 1.4 | 256QAM | 1 | 5 | 19.23 | 19.33 | 19.18 |    |   |
| 1.4 | 256QAM | 3 | 0 | 18.70 | 18.85 | 18.97 |    |   |
| 1.4 | 256QAM | 3 | 1 | 18.81 | 18.67 | 18.73 |    |   |
| 1.4 | 256QAM | 3 | 3 | 18.82 | 18.84 | 18.88 | 20 | 5 |
| 1.4 | 256QAM | 6 | 0 | 18.65 | 18.73 | 18.77 |    |   |

| Band 13 Ant0 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23230                 |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 782                   |                          |                        |                     |          |
| 10                | QPSK       | 1       | 0         |                       | 23.71                    |                        | 25                  | 0        |
| 10                | QPSK       | 1       | 25        |                       | 23.67                    |                        |                     |          |
| 10                | QPSK       | 1       | 49        |                       | 23.57                    |                        |                     |          |
| 10                | QPSK       | 25      | 0         |                       | 22.71                    |                        | 24                  | 1        |
| 10                | QPSK       | 25      | 12        |                       | 22.63                    |                        |                     |          |
| 10                | QPSK       | 25      | 25        |                       | 22.58                    |                        |                     |          |
| 10                | QPSK       | 50      | 0         |                       | 22.59                    |                        | 24                  | 1        |
| 10                | 16QAM      | 1       | 0         |                       | 22.89                    |                        |                     |          |
| 10                | 16QAM      | 1       | 25        |                       | 23.06                    |                        |                     |          |
| 10                | 16QAM      | 1       | 49        |                       | 23.07                    |                        | 24                  | 1        |
| 10                | 16QAM      | 25      | 0         |                       | 21.64                    |                        |                     |          |
| 10                | 16QAM      | 25      | 12        |                       | 21.80                    |                        |                     |          |
| 10                | 16QAM      | 25      | 25        |                       | 21.82                    |                        | 23                  | 2        |
| 10                | 16QAM      | 50      | 0         |                       | 21.78                    |                        |                     |          |
| 10                | 64QAM      | 1       | 0         |                       | 22.05                    |                        |                     |          |
| 10                | 64QAM      | 1       | 25        |                       | 22.12                    |                        | 23                  | 2        |
| 10                | 64QAM      | 1       | 49        |                       | 22.08                    |                        |                     |          |
| 10                | 64QAM      | 25      | 0         |                       | 20.66                    |                        |                     |          |
| 10                | 64QAM      | 25      | 12        |                       | 20.89                    |                        | 22                  | 3        |
| 10                | 64QAM      | 25      | 25        |                       | 20.87                    |                        |                     |          |
| 10                | 64QAM      | 50      | 0         |                       | 20.68                    |                        |                     |          |
| 10                | 256QAM     | 1       | 0         |                       | 18.75                    |                        | 20                  | 5        |
| 10                | 256QAM     | 1       | 25        |                       | 18.61                    |                        |                     |          |
| 10                | 256QAM     | 1       | 49        |                       | 18.57                    |                        |                     |          |
| 10                | 256QAM     | 25      | 0         |                       | 18.75                    |                        | 20                  | 5        |
| 10                | 256QAM     | 25      | 12        |                       | 18.88                    |                        |                     |          |
| 10                | 256QAM     | 25      | 25        |                       | 18.85                    |                        |                     |          |
| 10                | 256QAM     | 50      | 0         |                       | 18.87                    |                        |                     |          |

| Channel         |        |    |    | 23205 | 23230 | 23255 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 779.5 | 782   | 784.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.52 | 23.65 | 23.39 | 25                     | 0           |
| 5               | QPSK   | 1  | 12 | 23.35 | 23.59 | 23.49 |                        |             |
| 5               | QPSK   | 1  | 24 | 23.25 | 23.44 | 23.40 |                        |             |
| 5               | QPSK   | 12 | 0  | 22.52 | 22.63 | 22.36 | 24                     | 1           |
| 5               | QPSK   | 12 | 7  | 22.52 | 22.49 | 22.45 |                        |             |
| 5               | QPSK   | 12 | 13 | 22.38 | 22.42 | 22.33 |                        |             |
| 5               | QPSK   | 25 | 0  | 22.47 | 22.44 | 22.36 | 24                     | 1           |
| 5               | 16QAM  | 1  | 0  | 22.66 | 22.80 | 22.69 |                        |             |
| 5               | 16QAM  | 1  | 12 | 22.93 | 23.03 | 22.99 |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.96 | 23.05 | 22.74 | 23                     | 2           |
| 5               | 16QAM  | 12 | 0  | 21.31 | 21.61 | 21.44 |                        |             |
| 5               | 16QAM  | 12 | 7  | 21.61 | 21.68 | 21.55 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.71 | 21.75 | 21.61 | 23                     | 2           |
| 5               | 16QAM  | 25 | 0  | 21.56 | 21.68 | 21.64 |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.74 | 21.94 | 21.92 |                        |             |
| 5               | 64QAM  | 1  | 12 | 21.88 | 22.06 | 21.93 | 23                     | 2           |
| 5               | 64QAM  | 1  | 24 | 21.79 | 21.98 | 21.86 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.41 | 20.59 | 20.38 |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.60 | 20.81 | 20.83 | 22                     | 3           |
| 5               | 64QAM  | 12 | 13 | 20.55 | 20.80 | 20.68 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.45 | 20.53 | 20.46 |                        |             |
| 5               | 256QAM | 1  | 0  | 18.49 | 18.70 | 18.55 | 20                     | 5           |
| 5               | 256QAM | 1  | 12 | 18.39 | 18.54 | 18.53 |                        |             |
| 5               | 256QAM | 1  | 24 | 18.38 | 18.42 | 18.35 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.44 | 18.62 | 18.62 | 20                     | 5           |
| 5               | 256QAM | 12 | 7  | 18.67 | 18.78 | 18.80 |                        |             |
| 5               | 256QAM | 12 | 13 | 18.60 | 18.78 | 18.55 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.52 | 18.78 | 18.56 |                        |             |

| Band 14 Ant0 DSI4 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 23330                    |                             |                           |                        |             |
| Frequency (MHz)   |            |         |           | 793                      |                             |                           |                        |             |
| 10                | QPSK       | 1       | 0         |                          | 23.33                       |                           | 24.4                   | 0           |
| 10                | QPSK       | 1       | 25        |                          | 23.26                       |                           |                        |             |
| 10                | QPSK       | 1       | 49        |                          | 23.29                       |                           |                        |             |
| 10                | QPSK       | 25      | 0         |                          | 22.82                       |                           | 24                     | 0.4         |
| 10                | QPSK       | 25      | 12        |                          | 22.67                       |                           |                        |             |
| 10                | QPSK       | 25      | 25        |                          | 22.78                       |                           |                        |             |
| 10                | QPSK       | 50      | 0         |                          | 22.80                       |                           | 24                     | 0.4         |
| 10                | 16QAM      | 1       | 0         |                          | 23.12                       |                           |                        |             |
| 10                | 16QAM      | 1       | 25        |                          | 23.24                       |                           |                        |             |
| 10                | 16QAM      | 1       | 49        |                          | 23.04                       |                           | 23                     | 1.4         |
| 10                | 16QAM      | 25      | 0         |                          | 21.80                       |                           |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 25 | 12 |       | 21.90 |       |                        |             |
| 10              | 16QAM  | 25 | 25 |       | 21.82 |       |                        |             |
| 10              | 16QAM  | 50 | 0  |       | 21.86 |       |                        |             |
| 10              | 64QAM  | 1  | 0  |       | 21.73 |       | 23                     | 1.4         |
| 10              | 64QAM  | 1  | 25 |       | 21.72 |       |                        |             |
| 10              | 64QAM  | 1  | 49 |       | 21.69 |       |                        |             |
| 10              | 64QAM  | 25 | 0  |       | 20.79 |       | 22                     | 2.4         |
| 10              | 64QAM  | 25 | 12 |       | 20.78 |       |                        |             |
| 10              | 64QAM  | 25 | 25 |       | 20.78 |       |                        |             |
| 10              | 64QAM  | 50 | 0  |       | 20.79 |       |                        |             |
| 10              | 256QAM | 1  | 0  |       | 18.76 |       | 20                     | 4.4         |
| 10              | 256QAM | 1  | 25 |       | 18.90 |       |                        |             |
| 10              | 256QAM | 1  | 49 |       | 18.84 |       |                        |             |
| 10              | 256QAM | 25 | 0  |       | 18.71 |       | 20                     | 4.4         |
| 10              | 256QAM | 25 | 12 |       | 18.83 |       |                        |             |
| 10              | 256QAM | 25 | 25 |       | 18.76 |       |                        |             |
| 10              | 256QAM | 50 | 0  |       | 18.62 |       |                        |             |
| Channel         |        |    |    | 23305 | 23330 | 23355 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 790.5 | 793   | 795.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.25 | 23.31 | 23.22 | 24.4                   | 0           |
| 5               | QPSK   | 1  | 12 | 23.12 | 23.14 | 23.22 |                        |             |
| 5               | QPSK   | 1  | 24 | 23.18 | 23.20 | 23.18 |                        |             |
| 5               | QPSK   | 12 | 0  | 22.38 | 22.52 | 22.37 | 24                     | 0.4         |
| 5               | QPSK   | 12 | 7  | 22.39 | 22.59 | 22.48 |                        |             |
| 5               | QPSK   | 12 | 13 | 22.73 | 22.74 | 22.48 |                        |             |
| 5               | QPSK   | 25 | 0  | 22.57 | 22.68 | 22.70 |                        |             |
| 5               | 16QAM  | 1  | 0  | 22.85 | 22.97 | 23.03 | 24                     | 0.4         |
| 5               | 16QAM  | 1  | 12 | 22.97 | 23.20 | 23.07 |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.77 | 22.92 | 22.79 |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.56 | 21.64 | 21.66 | 23                     | 1.4         |
| 5               | 16QAM  | 12 | 7  | 21.85 | 21.78 | 21.68 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.68 | 21.74 | 21.68 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.75 | 21.73 | 21.81 |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.59 | 21.57 | 21.42 | 23                     | 1.4         |
| 5               | 64QAM  | 1  | 12 | 21.54 | 21.65 | 21.50 |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.49 | 21.67 | 21.47 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.63 | 20.64 | 20.62 | 22                     | 2.4         |
| 5               | 64QAM  | 12 | 7  | 20.59 | 20.71 | 20.43 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.45 | 20.65 | 20.67 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.58 | 20.62 | 20.63 |                        |             |
| 5               | 256QAM | 1  | 0  | 18.52 | 18.62 | 18.59 | 20                     | 4.4         |
| 5               | 256QAM | 1  | 12 | 18.66 | 18.76 | 18.67 |                        |             |
| 5               | 256QAM | 1  | 24 | 18.60 | 18.82 | 18.70 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.46 | 18.61 | 18.51 | 20                     | 4.4         |
| 5               | 256QAM | 12 | 7  | 18.63 | 18.67 | 18.60 |                        |             |
| 5               | 256QAM | 12 | 13 | 18.61 | 18.70 | 18.56 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.46 | 18.49 | 18.42 |                        |             |

| Band 17 Ant0 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23780                 | 23790                    | 23800                  |                     |          |
| Frequency (MHz)   |            |         |           | 709                   | 710                      | 711                    |                     |          |
| 10                | QPSK       | 1       | 0         | 23.77                 | 23.82                    | 23.74                  | 25                  | 0        |
| 10                | QPSK       | 1       | 25        | 23.77                 | 23.81                    | 23.73                  |                     |          |
| 10                | QPSK       | 1       | 49        | 23.71                 | 23.79                    | 23.58                  |                     |          |
| 10                | QPSK       | 25      | 0         | 22.71                 | 22.78                    | 22.72                  | 24                  | 1        |
| 10                | QPSK       | 25      | 12        | 22.76                 | 22.72                    | 22.70                  |                     |          |
| 10                | QPSK       | 25      | 25        | 22.70                 | 22.72                    | 22.66                  |                     |          |
| 10                | QPSK       | 50      | 0         | 22.65                 | 22.69                    | 22.58                  | 24                  | 1        |
| 10                | 16QAM      | 1       | 0         | 22.86                 | 22.91                    | 22.98                  |                     |          |
| 10                | 16QAM      | 1       | 25        | 23.05                 | 23.04                    | 23.13                  |                     |          |
| 10                | 16QAM      | 1       | 49        | 22.83                 | 22.92                    | 22.90                  | 23                  | 2        |
| 10                | 16QAM      | 25      | 0         | 21.63                 | 21.71                    | 21.76                  |                     |          |
| 10                | 16QAM      | 25      | 12        | 21.67                 | 21.76                    | 21.72                  |                     |          |
| 10                | 16QAM      | 25      | 25        | 21.70                 | 21.69                    | 21.75                  | 23                  | 2        |
| 10                | 16QAM      | 50      | 0         | 21.94                 | 21.90                    | 21.85                  |                     |          |
| 10                | 64QAM      | 1       | 0         | 21.95                 | 21.89                    | 21.84                  |                     |          |
| 10                | 64QAM      | 1       | 25        | 21.74                 | 21.73                    | 21.68                  | 22                  | 3        |
| 10                | 64QAM      | 1       | 49        | 21.88                 | 21.79                    | 21.70                  |                     |          |
| 10                | 64QAM      | 25      | 0         | 20.72                 | 20.72                    | 20.76                  |                     |          |
| 10                | 64QAM      | 25      | 12        | 20.79                 | 20.75                    | 20.77                  | 20                  | 5        |
| 10                | 64QAM      | 25      | 25        | 20.93                 | 20.85                    | 20.90                  |                     |          |
| 10                | 64QAM      | 50      | 0         | 20.65                 | 20.73                    | 20.67                  |                     |          |
| 10                | 256QAM     | 1       | 0         | 19.21                 | 19.22                    | 19.29                  | 20                  | 5        |
| 10                | 256QAM     | 1       | 25        | 19.21                 | 19.24                    | 19.32                  |                     |          |
| 10                | 256QAM     | 1       | 49        | 19.31                 | 19.33                    | 19.39                  |                     |          |
| 10                | 256QAM     | 25      | 0         | 19.25                 | 19.19                    | 19.17                  | 20                  | 5        |
| 10                | 256QAM     | 25      | 12        | 19.33                 | 19.25                    | 19.18                  |                     |          |
| 10                | 256QAM     | 25      | 25        | 19.31                 | 19.21                    | 19.29                  |                     |          |
| 10                | 256QAM     | 50      | 0         | 19.10                 | 19.14                    | 19.12                  | 23                  | 2        |
| Channel           |            |         |           | 23755                 | 23790                    | 23825                  |                     |          |
| Frequency (MHz)   |            |         |           | 706.5                 | 710                      | 713.5                  |                     |          |
| 5                 | QPSK       | 1       | 0         | 23.69                 | 23.76                    | 23.72                  | 25                  | 0        |
| 5                 | QPSK       | 1       | 12        | 23.70                 | 23.66                    | 23.68                  |                     |          |
| 5                 | QPSK       | 1       | 24        | 23.58                 | 23.62                    | 23.53                  |                     |          |
| 5                 | QPSK       | 12      | 0         | 22.53                 | 22.52                    | 22.57                  | 24                  | 1        |
| 5                 | QPSK       | 12      | 7         | 22.63                 | 22.60                    | 22.60                  |                     |          |
| 5                 | QPSK       | 12      | 13        | 22.56                 | 22.57                    | 22.50                  |                     |          |
| 5                 | QPSK       | 25      | 0         | 22.55                 | 22.44                    | 22.43                  | 24                  | 1        |
| 5                 | 16QAM      | 1       | 0         | 22.72                 | 22.84                    | 22.88                  |                     |          |
| 5                 | 16QAM      | 1       | 12        | 23.02                 | 22.99                    | 23.10                  |                     |          |
| 5                 | 16QAM      | 1       | 24        | 22.77                 | 22.83                    | 22.84                  | 23                  | 2        |
| 5                 | 16QAM      | 12      | 0         | 21.51                 | 21.56                    | 21.59                  |                     |          |

|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | 16QAM  | 12 | 7  | 21.59 | 21.72 | 21.61 |    |   |
| 5 | 16QAM  | 12 | 13 | 21.56 | 21.61 | 21.59 |    |   |
| 5 | 16QAM  | 25 | 0  | 21.81 | 21.84 | 21.72 |    |   |
| 5 | 64QAM  | 1  | 0  | 21.86 | 21.80 | 21.73 | 23 | 2 |
| 5 | 64QAM  | 1  | 12 | 21.64 | 21.62 | 21.64 |    |   |
| 5 | 64QAM  | 1  | 24 | 21.83 | 21.68 | 21.61 |    |   |
| 5 | 64QAM  | 12 | 0  | 20.64 | 20.55 | 20.60 | 22 | 3 |
| 5 | 64QAM  | 12 | 7  | 20.64 | 20.62 | 20.68 |    |   |
| 5 | 64QAM  | 12 | 13 | 20.84 | 20.71 | 20.75 |    |   |
| 5 | 64QAM  | 25 | 0  | 20.59 | 20.62 | 20.51 |    |   |
| 5 | 256QAM | 1  | 0  | 19.11 | 19.16 | 19.26 | 20 | 5 |
| 5 | 256QAM | 1  | 12 | 19.05 | 19.14 | 19.18 |    |   |
| 5 | 256QAM | 1  | 24 | 19.25 | 19.24 | 19.23 |    |   |
| 5 | 256QAM | 12 | 0  | 19.22 | 19.10 | 19.00 | 20 | 5 |
| 5 | 256QAM | 12 | 7  | 19.22 | 19.14 | 19.05 |    |   |
| 5 | 256QAM | 12 | 13 | 19.16 | 19.06 | 19.12 |    |   |
| 5 | 256QAM | 25 | 0  | 19.07 | 19.09 | 19.04 |    |   |

| Band 26 Ant0 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |
| Frequency (MHz)   |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15                | QPSK       | 1       | 0         | 22.53                 | 22.65                    | 22.50                  | 23.6                | 0        |
| 15                | QPSK       | 1       | 37        | 22.54                 | 22.63                    | 22.57                  |                     |          |
| 15                | QPSK       | 1       | 74        | 22.51                 | 22.51                    | 22.56                  |                     |          |
| 15                | QPSK       | 36      | 0         | 22.44                 | 22.58                    | 22.43                  | 23.6                | 0        |
| 15                | QPSK       | 36      | 20        | 22.49                 | 22.52                    | 22.51                  |                     |          |
| 15                | QPSK       | 36      | 39        | 22.42                 | 22.45                    | 22.50                  |                     |          |
| 15                | QPSK       | 75      | 0         | 22.49                 | 22.53                    | 22.40                  |                     |          |
| 15                | 16QAM      | 1       | 0         | 22.49                 | 22.62                    | 22.40                  | 23.6                | 0        |
| 15                | 16QAM      | 1       | 37        | 22.48                 | 22.60                    | 22.47                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 22.37                 | 22.42                    | 22.45                  |                     |          |
| 15                | 16QAM      | 36      | 0         | 21.75                 | 21.70                    | 21.62                  | 23                  | 0.6      |
| 15                | 16QAM      | 36      | 20        | 21.53                 | 21.49                    | 21.51                  |                     |          |
| 15                | 16QAM      | 36      | 39        | 21.69                 | 21.61                    | 21.60                  |                     |          |
| 15                | 16QAM      | 75      | 0         | 21.61                 | 21.56                    | 21.46                  |                     |          |
| 15                | 64QAM      | 1       | 0         | 21.59                 | 21.59                    | 21.56                  | 23                  | 0.6      |
| 15                | 64QAM      | 1       | 37        | 21.72                 | 21.72                    | 21.80                  |                     |          |
| 15                | 64QAM      | 1       | 74        | 21.59                 | 21.64                    | 21.56                  |                     |          |
| 15                | 64QAM      | 36      | 0         | 20.57                 | 20.61                    | 20.62                  | 22                  | 1.6      |
| 15                | 64QAM      | 36      | 20        | 20.60                 | 20.51                    | 20.42                  |                     |          |
| 15                | 64QAM      | 36      | 39        | 20.59                 | 20.61                    | 20.54                  |                     |          |
| 15                | 64QAM      | 75      | 0         | 20.58                 | 20.58                    | 20.65                  |                     |          |
| 15                | 256QAM     | 1       | 0         | 18.82                 | 18.74                    | 18.80                  | 20                  | 3.6      |
| 15                | 256QAM     | 1       | 37        | 18.92                 | 18.83                    | 18.86                  |                     |          |
| 15                | 256QAM     | 1       | 74        | 18.82                 | 18.83                    | 18.84                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 256QAM | 36 | 0  | 18.60 | 18.65 | 18.67 | 20                     | 3.6         |
| 15              | 256QAM | 36 | 20 | 18.70 | 18.70 | 18.73 |                        |             |
| 15              | 256QAM | 36 | 39 | 18.70 | 18.70 | 18.75 |                        |             |
| 15              | 256QAM | 75 | 0  | 18.86 | 18.79 | 18.73 |                        |             |
| Channel         |        |    |    | 26740 | 26865 | 26990 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 819   | 831.5 | 844   |                        |             |
| 10              | QPSK   | 1  | 0  | 22.47 | 22.56 | 22.36 | 23.6                   | 0           |
| 10              | QPSK   | 1  | 25 | 22.46 | 22.60 | 22.52 |                        |             |
| 10              | QPSK   | 1  | 49 | 22.47 | 22.40 | 22.49 |                        |             |
| 10              | QPSK   | 25 | 0  | 22.31 | 22.51 | 22.38 | 23.6                   | 0           |
| 10              | QPSK   | 25 | 12 | 22.38 | 22.49 | 22.44 |                        |             |
| 10              | QPSK   | 25 | 25 | 22.32 | 22.38 | 22.43 |                        |             |
| 10              | QPSK   | 50 | 0  | 22.47 | 22.46 | 22.36 |                        |             |
| 10              | 16QAM  | 1  | 0  | 22.44 | 22.51 | 22.29 | 23.6                   | 0           |
| 10              | 16QAM  | 1  | 25 | 22.45 | 22.48 | 22.39 |                        |             |
| 10              | 16QAM  | 1  | 49 | 22.29 | 22.32 | 22.36 |                        |             |
| 10              | 16QAM  | 25 | 0  | 21.64 | 21.66 | 21.54 | 23                     | 0.6         |
| 10              | 16QAM  | 25 | 12 | 21.50 | 21.34 | 21.37 |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.56 | 21.47 | 21.49 |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.52 | 21.45 | 21.30 |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.55 | 21.56 | 21.49 | 23                     | 0.6         |
| 10              | 64QAM  | 1  | 25 | 21.64 | 21.66 | 21.73 |                        |             |
| 10              | 64QAM  | 1  | 49 | 21.49 | 21.47 | 21.43 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.41 | 20.51 | 20.45 | 22                     | 1.6         |
| 10              | 64QAM  | 25 | 12 | 20.50 | 20.45 | 20.32 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.50 | 20.47 | 20.39 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.55 | 20.42 | 20.52 |                        |             |
| 10              | 256QAM | 1  | 0  | 18.66 | 18.58 | 18.70 | 20                     | 3.6         |
| 10              | 256QAM | 1  | 25 | 18.89 | 18.80 | 18.82 |                        |             |
| 10              | 256QAM | 1  | 49 | 18.64 | 18.72 | 18.74 |                        |             |
| 10              | 256QAM | 25 | 0  | 18.54 | 18.58 | 18.63 | 20                     | 3.6         |
| 10              | 256QAM | 25 | 12 | 18.65 | 18.60 | 18.59 |                        |             |
| 10              | 256QAM | 25 | 25 | 18.57 | 18.62 | 18.70 |                        |             |
| 10              | 256QAM | 50 | 0  | 18.81 | 18.65 | 18.70 |                        |             |
| Channel         |        |    |    | 26715 | 26865 | 27015 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 816.5 | 831.5 | 846.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.43 | 22.61 | 22.44 | 23.6                   | 0           |
| 5               | QPSK   | 1  | 12 | 22.52 | 22.49 | 22.50 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.48 | 22.49 | 22.50 |                        |             |
| 5               | QPSK   | 12 | 0  | 22.39 | 22.52 | 22.34 | 23.6                   | 0           |
| 5               | QPSK   | 12 | 7  | 22.38 | 22.46 | 22.40 |                        |             |
| 5               | QPSK   | 12 | 13 | 22.34 | 22.38 | 22.37 |                        |             |
| 5               | QPSK   | 25 | 0  | 22.46 | 22.44 | 22.35 |                        |             |
| 5               | 16QAM  | 1  | 0  | 22.46 | 22.52 | 22.28 | 23.6                   | 0           |
| 5               | 16QAM  | 1  | 12 | 22.35 | 22.56 | 22.35 |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.25 | 22.32 | 22.37 |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.57 | 21.60 | 21.58 | 23                     | 0.6         |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 5               | 16QAM  | 12 | 7  | 21.44 | 21.38 | 21.42 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.54 | 21.51 | 21.51 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.44 | 21.39 | 21.28 |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.45 | 21.53 | 21.40 | 23                     | 0.6         |
| 5               | 64QAM  | 1  | 12 | 21.57 | 21.58 | 21.63 |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.56 | 21.49 | 21.45 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.47 | 20.58 | 20.55 | 22                     | 1.6         |
| 5               | 64QAM  | 12 | 7  | 20.46 | 20.48 | 20.40 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.41 | 20.54 | 20.48 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.44 | 20.51 | 20.54 |                        |             |
| 5               | 256QAM | 1  | 0  | 18.70 | 18.66 | 18.76 | 20                     | 3.6         |
| 5               | 256QAM | 1  | 12 | 18.76 | 18.65 | 18.75 |                        |             |
| 5               | 256QAM | 1  | 24 | 18.71 | 18.71 | 18.78 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.48 | 18.49 | 18.56 | 20                     | 3.6         |
| 5               | 256QAM | 12 | 7  | 18.59 | 18.66 | 18.56 |                        |             |
| 5               | 256QAM | 12 | 13 | 18.58 | 18.67 | 18.65 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.76 | 18.67 | 18.69 |                        |             |
| Channel         |        |    |    | 26705 | 26865 | 27025 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 815.5 | 831.5 | 847.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 22.46 | 22.63 | 22.42 | 23.6                   | 0           |
| 3               | QPSK   | 1  | 8  | 22.44 | 22.56 | 22.43 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.38 | 22.43 | 22.53 |                        |             |
| 3               | QPSK   | 8  | 0  | 22.40 | 22.49 | 22.40 | 23.6                   | 0           |
| 3               | QPSK   | 8  | 4  | 22.37 | 22.40 | 22.44 |                        |             |
| 3               | QPSK   | 8  | 7  | 22.39 | 22.32 | 22.43 |                        |             |
| 3               | QPSK   | 15 | 0  | 22.43 | 22.39 | 22.34 |                        |             |
| 3               | 16QAM  | 1  | 0  | 22.44 | 22.55 | 22.35 | 23.6                   | 0           |
| 3               | 16QAM  | 1  | 8  | 22.45 | 22.58 | 22.39 |                        |             |
| 3               | 16QAM  | 1  | 14 | 22.33 | 22.39 | 22.32 |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.70 | 21.64 | 21.56 | 23                     | 0.6         |
| 3               | 16QAM  | 8  | 4  | 21.47 | 21.39 | 21.39 |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.54 | 21.54 | 21.45 |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.47 | 21.53 | 21.36 |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.51 | 21.48 | 21.53 | 23                     | 0.6         |
| 3               | 64QAM  | 1  | 8  | 21.64 | 21.62 | 21.69 |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.49 | 21.59 | 21.40 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.49 | 20.45 | 20.48 | 22                     | 1.6         |
| 3               | 64QAM  | 8  | 4  | 20.53 | 20.46 | 20.25 |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.50 | 20.57 | 20.39 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.48 | 20.46 | 20.55 |                        |             |
| 3               | 256QAM | 1  | 0  | 18.65 | 18.66 | 18.66 | 20                     | 3.6         |
| 3               | 256QAM | 1  | 8  | 18.79 | 18.72 | 18.78 |                        |             |
| 3               | 256QAM | 1  | 14 | 18.66 | 18.75 | 18.76 |                        |             |
| 3               | 256QAM | 8  | 0  | 18.43 | 18.52 | 18.52 | 20                     | 3.6         |
| 3               | 256QAM | 8  | 4  | 18.54 | 18.57 | 18.60 |                        |             |
| 3               | 256QAM | 8  | 7  | 18.63 | 18.65 | 18.59 |                        |             |
| 3               | 256QAM | 15 | 0  | 18.81 | 18.72 | 18.65 |                        |             |

| Channel         |        |   |   | 26697 | 26865 | 27033 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|---|---|-------|-------|-------|------------------------|-------------|
| Frequency (MHz) |        |   |   | 814.7 | 831.5 | 848.3 |                        |             |
| 1.4             | QPSK   | 1 | 0 | 22.44 | 22.56 | 22.47 | 23.6                   | 0           |
| 1.4             | QPSK   | 1 | 3 | 22.47 | 22.52 | 22.46 |                        |             |
| 1.4             | QPSK   | 1 | 5 | 22.41 | 22.43 | 22.45 |                        |             |
| 1.4             | QPSK   | 3 | 0 | 22.39 | 22.53 | 22.42 |                        |             |
| 1.4             | QPSK   | 3 | 1 | 22.41 | 22.52 | 22.46 |                        |             |
| 1.4             | QPSK   | 3 | 3 | 22.47 | 22.47 | 22.51 |                        |             |
| 1.4             | QPSK   | 6 | 0 | 22.33 | 22.54 | 22.39 | 23.6                   | 0           |
| 1.4             | 16QAM  | 1 | 0 | 22.46 | 22.43 | 22.42 | 23.6                   | 0           |
| 1.4             | 16QAM  | 1 | 3 | 22.39 | 22.32 | 22.48 |                        |             |
| 1.4             | 16QAM  | 1 | 5 | 22.38 | 22.46 | 22.30 |                        |             |
| 1.4             | 16QAM  | 3 | 0 | 22.39 | 22.55 | 22.37 |                        |             |
| 1.4             | 16QAM  | 3 | 1 | 22.34 | 22.48 | 22.41 |                        |             |
| 1.4             | 16QAM  | 3 | 3 | 22.32 | 22.34 | 22.37 |                        |             |
| 1.4             | 16QAM  | 6 | 0 | 21.58 | 21.62 | 21.55 | 23                     | 0.6         |
| 1.4             | 64QAM  | 1 | 0 | 21.48 | 21.41 | 21.36 | 23                     | 0.6         |
| 1.4             | 64QAM  | 1 | 3 | 21.63 | 21.46 | 21.47 |                        |             |
| 1.4             | 64QAM  | 1 | 5 | 21.51 | 21.45 | 21.30 |                        |             |
| 1.4             | 64QAM  | 3 | 0 | 21.57 | 21.43 | 21.53 |                        |             |
| 1.4             | 64QAM  | 3 | 1 | 21.55 | 21.70 | 21.66 |                        |             |
| 1.4             | 64QAM  | 3 | 3 | 21.55 | 21.58 | 21.45 |                        |             |
| 1.4             | 64QAM  | 6 | 0 | 20.46 | 20.48 | 20.52 | 22                     | 1.6         |
| 1.4             | 256QAM | 1 | 0 | 18.78 | 18.64 | 18.74 | 20                     | 3.6         |
| 1.4             | 256QAM | 1 | 3 | 18.88 | 18.77 | 18.75 |                        |             |
| 1.4             | 256QAM | 1 | 5 | 18.69 | 18.74 | 18.82 |                        |             |
| 1.4             | 256QAM | 3 | 0 | 18.43 | 18.62 | 18.56 |                        |             |
| 1.4             | 256QAM | 3 | 1 | 18.57 | 18.53 | 18.60 |                        |             |
| 1.4             | 256QAM | 3 | 3 | 18.65 | 18.61 | 18.60 |                        |             |
| 1.4             | 256QAM | 6 | 0 | 18.81 | 18.75 | 18.60 | 20                     | 3.6         |

| Band 71 Ant0 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 133222                | 133297                   | 133372                 |                     |          |
| Frequency (MHz)   |            |         |           | 673                   | 680.5                    | 688                    |                     |          |
| 20                | QPSK       | 1       | 0         | 22.67                 | 22.76                    | 22.63                  | 24                  | 0        |
| 20                | QPSK       | 1       | 49        | 22.66                 | 22.73                    | 22.69                  |                     |          |
| 20                | QPSK       | 1       | 99        | 22.66                 | 22.65                    | 22.62                  |                     |          |
| 20                | QPSK       | 50      | 0         | 21.65                 | 21.68                    | 21.63                  | 23                  | 1        |
| 20                | QPSK       | 50      | 24        | 21.64                 | 21.60                    | 21.64                  |                     |          |
| 20                | QPSK       | 50      | 50        | 21.55                 | 21.52                    | 21.62                  |                     |          |
| 20                | QPSK       | 100     | 0         | 21.59                 | 21.62                    | 21.60                  | 23                  | 1        |
| 20                | 16QAM      | 1       | 0         | 21.82                 | 21.87                    | 21.93                  |                     |          |
| 20                | 16QAM      | 1       | 49        | 21.82                 | 21.83                    | 21.82                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 21.98                 | 21.91                    | 21.88                  | 22                  | 2        |
| 20                | 16QAM      | 50      | 0         | 20.67                 | 20.65                    | 20.64                  |                     |          |
| 20                | 16QAM      | 50      | 24        | 20.58                 | 20.58                    | 20.53                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 20.79                 | 20.78                    | 20.70                  | 22                  | 2        |
| 20                | 16QAM      | 100     | 0         | 20.67                 | 20.66                    | 20.70                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 20.91                 | 20.95                    | 21.04                  |                     |          |
| 20                | 64QAM      | 1       | 49        | 21.06                 | 21.01                    | 21.07                  | 22                  | 2        |
| 20                | 64QAM      | 1       | 99        | 20.96                 | 20.97                    | 20.94                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 19.72                 | 19.67                    | 19.66                  |                     |          |
| 20                | 64QAM      | 50      | 24        | 19.47                 | 19.55                    | 19.54                  | 21                  | 3        |
| 20                | 64QAM      | 50      | 50        | 19.66                 | 19.64                    | 19.57                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 19.60                 | 19.62                    | 19.55                  |                     |          |
| 20                | 256QAM     | 1       | 0         | 17.68                 | 17.60                    | 17.65                  | 19                  | 5        |
| 20                | 256QAM     | 1       | 49        | 17.62                 | 17.61                    | 17.71                  |                     |          |
| 20                | 256QAM     | 1       | 99        | 17.71                 | 17.70                    | 17.71                  |                     |          |
| 20                | 256QAM     | 50      | 0         | 17.63                 | 17.55                    | 17.58                  | 19                  | 5        |
| 20                | 256QAM     | 50      | 24        | 17.56                 | 17.59                    | 17.57                  |                     |          |
| 20                | 256QAM     | 50      | 50        | 17.52                 | 17.61                    | 17.71                  |                     |          |
| 20                | 256QAM     | 100     | 0         | 17.64                 | 17.70                    | 17.79                  | 19                  | 5        |
| 20                | 256QAM     | 100     | 0         | 17.64                 | 17.70                    | 17.79                  |                     |          |
| 20                | 256QAM     | 100     | 0         | 17.64                 | 17.70                    | 17.79                  |                     |          |
| Channel           |            |         |           | 133197                | 133297                   | 133397                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |
|                   |            |         |           |                       |                          |                        |                     |          |
| 15                | QPSK       | 1       | 0         | 22.65                 | 22.70                    | 22.52                  | 24                  | 0        |
| 15                | QPSK       | 1       | 37        | 22.63                 | 22.60                    | 22.53                  |                     |          |
| 15                | QPSK       | 1       | 74        | 22.51                 | 22.61                    | 22.51                  |                     |          |
| 15                | QPSK       | 36      | 0         | 21.44                 | 21.49                    | 21.57                  | 23                  | 1        |
| 15                | QPSK       | 36      | 20        | 21.50                 | 21.48                    | 21.57                  |                     |          |
| 15                | QPSK       | 36      | 39        | 21.52                 | 21.37                    | 21.56                  |                     |          |
| 15                | QPSK       | 75      | 0         | 21.40                 | 21.40                    | 21.47                  | 23                  | 1        |
| 15                | 16QAM      | 1       | 0         | 21.64                 | 21.80                    | 21.89                  |                     |          |
| 15                | 16QAM      | 1       | 37        | 21.79                 | 21.77                    | 21.77                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 21.92                 | 21.88                    | 21.71                  | 22                  | 2        |
| 15                | 16QAM      | 36      | 0         | 20.50                 | 20.61                    | 20.61                  |                     |          |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 20.47  | 20.47  | 20.43  |                        |             |
| 15              | 16QAM  | 36 | 39 | 20.73  | 20.69  | 20.61  |                        |             |
| 15              | 16QAM  | 75 | 0  | 20.57  | 20.57  | 20.58  |                        |             |
| 15              | 64QAM  | 1  | 0  | 20.81  | 20.90  | 21.00  | 22                     | 2           |
| 15              | 64QAM  | 1  | 37 | 20.91  | 20.96  | 20.99  |                        |             |
| 15              | 64QAM  | 1  | 74 | 20.86  | 20.84  | 20.77  |                        |             |
| 15              | 64QAM  | 36 | 0  | 19.63  | 19.59  | 19.48  | 21                     | 3           |
| 15              | 64QAM  | 36 | 20 | 19.30  | 19.50  | 19.52  |                        |             |
| 15              | 64QAM  | 36 | 39 | 19.56  | 19.47  | 19.53  |                        |             |
| 15              | 64QAM  | 75 | 0  | 19.49  | 19.52  | 19.51  |                        |             |
| 15              | 256QAM | 1  | 0  | 17.53  | 17.52  | 17.55  | 19                     | 5           |
| 15              | 256QAM | 1  | 37 | 17.45  | 17.53  | 17.55  |                        |             |
| 15              | 256QAM | 1  | 74 | 17.67  | 17.62  | 17.57  |                        |             |
| 15              | 256QAM | 36 | 0  | 17.59  | 17.38  | 17.40  | 19                     | 5           |
| 15              | 256QAM | 36 | 20 | 17.53  | 17.57  | 17.40  |                        |             |
| 15              | 256QAM | 36 | 39 | 17.35  | 17.58  | 17.67  |                        |             |
| 15              | 256QAM | 75 | 0  | 17.57  | 17.65  | 17.70  |                        |             |
| Channel         |        |    |    | 133172 | 133297 | 133422 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |             |
| 10              | QPSK   | 1  | 0  | 22.64  | 22.70  | 22.52  | 24                     | 0           |
| 10              | QPSK   | 1  | 25 | 22.62  | 22.63  | 22.55  |                        |             |
| 10              | QPSK   | 1  | 49 | 22.56  | 22.49  | 22.50  |                        |             |
| 10              | QPSK   | 25 | 0  | 21.38  | 21.59  | 21.55  | 23                     | 1           |
| 10              | QPSK   | 25 | 12 | 21.61  | 21.46  | 21.59  |                        |             |
| 10              | QPSK   | 25 | 25 | 21.46  | 21.39  | 21.47  |                        |             |
| 10              | QPSK   | 50 | 0  | 21.35  | 21.47  | 21.44  |                        |             |
| 10              | 16QAM  | 1  | 0  | 21.75  | 21.70  | 21.88  | 23                     | 1           |
| 10              | 16QAM  | 1  | 25 | 21.64  | 21.75  | 21.68  |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.81  | 21.87  | 21.86  |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.53  | 20.56  | 20.55  | 22                     | 2           |
| 10              | 16QAM  | 25 | 12 | 20.43  | 20.45  | 20.44  |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.63  | 20.73  | 20.53  |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.52  | 20.51  | 20.59  |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.74  | 20.86  | 20.93  | 22                     | 2           |
| 10              | 64QAM  | 1  | 25 | 20.99  | 20.88  | 20.95  |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.80  | 20.86  | 20.86  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.69  | 19.64  | 19.56  | 21                     | 3           |
| 10              | 64QAM  | 25 | 12 | 19.37  | 19.40  | 19.44  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.55  | 19.53  | 19.48  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.46  | 19.45  | 19.46  |                        |             |
| 10              | 256QAM | 1  | 0  | 17.62  | 17.51  | 17.48  | 19                     | 5           |
| 10              | 256QAM | 1  | 25 | 17.54  | 17.55  | 17.59  |                        |             |
| 10              | 256QAM | 1  | 49 | 17.54  | 17.67  | 17.54  |                        |             |
| 10              | 256QAM | 25 | 0  | 17.56  | 17.41  | 17.52  | 19                     | 5           |
| 10              | 256QAM | 25 | 12 | 17.46  | 17.55  | 17.48  |                        |             |
| 10              | 256QAM | 25 | 25 | 17.35  | 17.54  | 17.65  |                        |             |
| 10              | 256QAM | 50 | 0  | 17.47  | 17.66  | 17.72  |                        |             |

| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |             |
| 5               | QPSK   | 1  | 0  | 22.61  | 22.68  | 22.52  | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.63  | 22.62  | 22.60  |                        |             |
| 5               | QPSK   | 1  | 24 | 22.60  | 22.59  | 22.49  |                        |             |
| 5               | QPSK   | 12 | 0  | 21.51  | 21.61  | 21.53  | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.58  | 21.49  | 21.49  |                        |             |
| 5               | QPSK   | 12 | 13 | 21.52  | 21.41  | 21.52  |                        |             |
| 5               | QPSK   | 25 | 0  | 21.40  | 21.46  | 21.58  | 23                     | 1           |
| 5               | 16QAM  | 1  | 0  | 21.77  | 21.72  | 21.81  |                        |             |
| 5               | 16QAM  | 1  | 12 | 21.78  | 21.79  | 21.71  |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.90  | 21.78  | 21.76  | 22                     | 2           |
| 5               | 16QAM  | 12 | 0  | 20.62  | 20.54  | 20.54  |                        |             |
| 5               | 16QAM  | 12 | 7  | 20.41  | 20.43  | 20.40  |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.68  | 20.63  | 20.58  | 22                     | 2           |
| 5               | 16QAM  | 25 | 0  | 20.63  | 20.61  | 20.56  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.74  | 20.90  | 21.00  |                        |             |
| 5               | 64QAM  | 1  | 12 | 21.02  | 20.93  | 20.98  | 22                     | 2           |
| 5               | 64QAM  | 1  | 24 | 20.81  | 20.85  | 20.85  |                        |             |
| 5               | 64QAM  | 12 | 0  | 19.57  | 19.58  | 19.58  |                        |             |
| 5               | 64QAM  | 12 | 7  | 19.41  | 19.45  | 19.47  | 21                     | 3           |
| 5               | 64QAM  | 12 | 13 | 19.52  | 19.47  | 19.50  |                        |             |
| 5               | 64QAM  | 25 | 0  | 19.57  | 19.58  | 19.39  |                        |             |
| 5               | 256QAM | 1  | 0  | 17.57  | 17.43  | 17.55  | 19                     | 5           |
| 5               | 256QAM | 1  | 12 | 17.52  | 17.53  | 17.59  |                        |             |
| 5               | 256QAM | 1  | 24 | 17.61  | 17.60  | 17.66  |                        |             |
| 5               | 256QAM | 12 | 0  | 17.54  | 17.44  | 17.45  | 19                     | 5           |
| 5               | 256QAM | 12 | 7  | 17.42  | 17.48  | 17.43  |                        |             |
| 5               | 256QAM | 12 | 13 | 17.41  | 17.53  | 17.66  |                        |             |
| 5               | 256QAM | 25 | 0  | 17.51  | 17.61  | 17.76  |                        |             |

| Band 5 Ant1 DSI4 |            |         |           |                          |                             |                           |                        |             |
|------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel          |            |         |           | 20450                    | 20525                       | 20600                     |                        |             |
| Frequency (MHz)  |            |         |           | 829                      | 836.5                       | 844                       |                        |             |
| 10               | QPSK       | 1       | 0         | 22.30                    | 22.36                       | 22.23                     | 23.6                   | 0           |
| 10               | QPSK       | 1       | 25        | 22.22                    | 22.29                       | 22.31                     |                        |             |
| 10               | QPSK       | 1       | 49        | 22.31                    | 22.20                       | 22.28                     |                        |             |
| 10               | QPSK       | 25      | 0         | 21.48                    | 21.54                       | 21.53                     | 23                     | 0.6         |
| 10               | QPSK       | 25      | 12        | 21.24                    | 21.22                       | 21.19                     |                        |             |
| 10               | QPSK       | 25      | 25        | 21.37                    | 21.42                       | 21.38                     |                        |             |
| 10               | QPSK       | 50      | 0         | 21.45                    | 21.50                       | 21.47                     | 23                     | 0.6         |
| 10               | 16QAM      | 1       | 0         | 21.65                    | 21.72                       | 21.72                     |                        |             |
| 10               | 16QAM      | 1       | 25        | 21.57                    | 21.57                       | 21.60                     |                        |             |
| 10               | 16QAM      | 1       | 49        | 21.67                    | 21.52                       | 21.66                     | 22                     | 1.6         |
| 10               | 16QAM      | 25      | 0         | 20.52                    | 20.49                       | 20.35                     |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 25 | 12 | 20.23 | 20.22 | 20.33 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.40 | 20.36 | 20.33 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.34 | 20.31 | 20.25 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.51 | 20.50 | 20.38 | 22                     | 1.6         |
| 10              | 64QAM  | 1  | 25 | 20.55 | 20.42 | 20.50 |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.42 | 20.47 | 20.41 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.62 | 20.50 | 20.38 | 21                     | 2.6         |
| 10              | 64QAM  | 25 | 12 | 20.43 | 20.44 | 20.39 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.40 | 20.30 | 20.35 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.31 | 20.34 | 20.41 | 19                     | 4.6         |
| 10              | 256QAM | 1  | 0  | 17.31 | 17.27 | 17.35 |                        |             |
| 10              | 256QAM | 1  | 25 | 17.14 | 17.30 | 17.36 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.19 | 17.23 | 17.34 | 19                     | 4.6         |
| 10              | 256QAM | 25 | 0  | 17.37 | 17.44 | 17.26 |                        |             |
| 10              | 256QAM | 25 | 12 | 17.23 | 17.31 | 17.37 |                        |             |
| 10              | 256QAM | 25 | 25 | 17.37 | 17.37 | 17.41 | 19                     | 4.6         |
| 10              | 256QAM | 50 | 0  | 17.27 | 17.34 | 17.26 |                        |             |
| Channel         |        |    |    | 20425 | 20525 | 20625 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 826.5 | 836.5 | 846.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.26 | 22.28 | 22.14 | 23.6                   | 0           |
| 5               | QPSK   | 1  | 12 | 22.17 | 22.18 | 22.22 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.23 | 22.08 | 22.12 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.33 | 21.41 | 21.38 | 23                     | 0.6         |
| 5               | QPSK   | 12 | 7  | 21.12 | 21.12 | 21.15 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.27 | 21.36 | 21.26 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.32 | 21.44 | 21.40 | 23                     | 0.6         |
| 5               | 16QAM  | 1  | 0  | 21.50 | 21.68 | 21.59 |                        |             |
| 5               | 16QAM  | 1  | 12 | 21.48 | 21.44 | 21.52 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.53 | 21.43 | 21.52 | 22                     | 1.6         |
| 5               | 16QAM  | 12 | 0  | 20.39 | 20.35 | 20.19 |                        |             |
| 5               | 16QAM  | 12 | 7  | 20.16 | 20.07 | 20.19 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.33 | 20.24 | 20.20 | 22                     | 1.6         |
| 5               | 16QAM  | 25 | 0  | 20.19 | 20.26 | 20.10 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.46 | 20.40 | 20.32 |                        |             |
| 5               | 64QAM  | 1  | 12 | 20.40 | 20.29 | 20.40 | 21                     | 2.6         |
| 5               | 64QAM  | 1  | 24 | 20.31 | 20.38 | 20.35 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.50 | 20.45 | 20.22 |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.33 | 20.33 | 20.27 | 19                     | 4.6         |
| 5               | 64QAM  | 12 | 13 | 20.28 | 20.25 | 20.31 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.15 | 20.18 | 20.31 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.22 | 17.15 | 17.28 | 19                     | 4.6         |
| 5               | 256QAM | 1  | 12 | 17.04 | 17.16 | 17.29 |                        |             |
| 5               | 256QAM | 1  | 24 | 17.06 | 17.11 | 17.28 |                        |             |
| 5               | 256QAM | 12 | 0  | 17.27 | 17.31 | 17.14 | 19                     | 4.6         |
| 5               | 256QAM | 12 | 7  | 17.17 | 17.21 | 17.27 |                        |             |
| 5               | 256QAM | 12 | 13 | 17.24 | 17.26 | 17.25 |                        |             |
| 5               | 256QAM | 25 | 0  | 17.18 | 17.28 | 17.12 |                        |             |

| Channel         |        |    |    | 20415 | 20525 | 20635 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 825.5 | 836.5 | 847.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 22.16 | 22.24 | 22.10 | 23.6                   | 0           |
| 3               | QPSK   | 1  | 8  | 22.11 | 22.18 | 22.16 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.21 | 22.14 | 22.19 |                        |             |
| 3               | QPSK   | 8  | 0  | 21.43 | 21.45 | 21.47 | 23                     | 0.6         |
| 3               | QPSK   | 8  | 4  | 21.11 | 21.12 | 21.06 |                        |             |
| 3               | QPSK   | 8  | 7  | 21.32 | 21.37 | 21.22 |                        |             |
| 3               | QPSK   | 15 | 0  | 21.39 | 21.44 | 21.42 | 23                     | 0.6         |
| 3               | 16QAM  | 1  | 0  | 21.61 | 21.59 | 21.62 |                        |             |
| 3               | 16QAM  | 1  | 8  | 21.41 | 21.41 | 21.50 |                        |             |
| 3               | 16QAM  | 1  | 14 | 21.52 | 21.38 | 21.59 | 22                     | 1.6         |
| 3               | 16QAM  | 8  | 0  | 20.43 | 20.37 | 20.22 |                        |             |
| 3               | 16QAM  | 8  | 4  | 20.12 | 20.07 | 20.19 |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.28 | 20.23 | 20.18 | 22                     | 1.6         |
| 3               | 16QAM  | 15 | 0  | 20.22 | 20.21 | 20.10 |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.41 | 20.37 | 20.22 |                        |             |
| 3               | 64QAM  | 1  | 8  | 20.48 | 20.33 | 20.43 | 22                     | 1.6         |
| 3               | 64QAM  | 1  | 14 | 20.34 | 20.33 | 20.36 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.50 | 20.45 | 20.30 |                        |             |
| 3               | 64QAM  | 8  | 4  | 20.29 | 20.29 | 20.24 | 21                     | 2.6         |
| 3               | 64QAM  | 8  | 7  | 20.30 | 20.23 | 20.24 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.15 | 20.27 | 20.25 |                        |             |
| 3               | 256QAM | 1  | 0  | 17.17 | 17.17 | 17.25 | 19                     | 4.6         |
| 3               | 256QAM | 1  | 8  | 17.06 | 17.16 | 17.27 |                        |             |
| 3               | 256QAM | 1  | 14 | 17.09 | 17.14 | 17.22 |                        |             |
| 3               | 256QAM | 8  | 0  | 17.32 | 17.35 | 17.14 | 19                     | 4.6         |
| 3               | 256QAM | 8  | 4  | 17.07 | 17.18 | 17.31 |                        |             |
| 3               | 256QAM | 8  | 7  | 17.30 | 17.31 | 17.37 |                        |             |
| 3               | 256QAM | 15 | 0  | 17.22 | 17.22 | 17.15 | 19                     | 4.6         |
| Channel         |        |    |    | 20407 | 20525 | 20643 |                        |             |
| Frequency (MHz) |        |    |    | 824.7 | 836.5 | 848.3 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 1.4             | QPSK   | 1  | 0  | 22.18 | 22.21 | 22.12 | 23.6                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 22.14 | 22.22 | 22.17 |                        |             |
| 1.4             | QPSK   | 1  | 5  | 22.25 | 22.12 | 22.16 |                        |             |
| 1.4             | QPSK   | 3  | 0  | 22.20 | 22.21 | 22.16 |                        |             |
| 1.4             | QPSK   | 3  | 1  | 22.12 | 22.15 | 22.18 |                        |             |
| 1.4             | QPSK   | 3  | 3  | 22.26 | 22.14 | 22.15 | 23                     | 0.6         |
| 1.4             | QPSK   | 6  | 0  | 21.36 | 21.39 | 21.39 |                        |             |
| 1.4             | 16QAM  | 1  | 0  | 21.57 | 21.63 | 21.56 | 23                     | 0.6         |
| 1.4             | 16QAM  | 1  | 3  | 21.51 | 21.45 | 21.55 |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 21.60 | 21.40 | 21.52 |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.52 | 21.62 | 21.65 |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 21.51 | 21.50 | 21.46 |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 21.61 | 21.44 | 21.60 | 22                     | 1.6         |
| 1.4             | 16QAM  | 6  | 0  | 20.24 | 20.19 | 20.15 |                        |             |
| 1.4             | 64QAM  | 1  | 0  | 20.44 | 20.44 | 20.33 | 22                     | 1.6         |

|     |        |   |   |       |       |       |    |     |
|-----|--------|---|---|-------|-------|-------|----|-----|
| 1.4 | 64QAM  | 1 | 3 | 20.49 | 20.36 | 20.36 |    |     |
| 1.4 | 64QAM  | 1 | 5 | 20.35 | 20.36 | 20.33 |    |     |
| 1.4 | 64QAM  | 3 | 0 | 20.52 | 20.42 | 20.34 |    |     |
| 1.4 | 64QAM  | 3 | 1 | 20.33 | 20.31 | 20.24 |    |     |
| 1.4 | 64QAM  | 3 | 3 | 20.25 | 20.22 | 20.21 |    |     |
| 1.4 | 64QAM  | 6 | 0 | 20.26 | 20.21 | 20.29 | 21 | 2.6 |
| 1.4 | 256QAM | 1 | 0 | 17.22 | 17.19 | 17.24 | 19 | 4.6 |
| 1.4 | 256QAM | 1 | 3 | 17.01 | 17.24 | 17.31 |    |     |
| 1.4 | 256QAM | 1 | 5 | 17.09 | 17.16 | 17.28 |    |     |
| 1.4 | 256QAM | 3 | 0 | 17.22 | 17.36 | 17.15 |    |     |
| 1.4 | 256QAM | 3 | 1 | 17.18 | 17.23 | 17.32 |    |     |
| 1.4 | 256QAM | 3 | 3 | 17.32 | 17.24 | 17.31 | 19 | 4.6 |
| 1.4 | 256QAM | 6 | 0 | 17.14 | 17.26 | 17.12 |    |     |

| Band 12 Ant1 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |
| Frequency (MHz)   |            |         |           | 704                   | 707.5                    | 711                    |                     |          |
| 10                | QPSK       | 1       | 0         | 22.47                 | 22.52                    | 22.41                  | 24                  | 0        |
| 10                | QPSK       | 1       | 25        | 22.42                 | 22.48                    | 22.49                  |                     |          |
| 10                | QPSK       | 1       | 49        | 22.37                 | 22.37                    | 22.48                  |                     |          |
| 10                | QPSK       | 25      | 0         | 21.55                 | 21.68                    | 21.66                  | 23                  | 1        |
| 10                | QPSK       | 25      | 12        | 21.47                 | 21.38                    | 21.33                  |                     |          |
| 10                | QPSK       | 25      | 25        | 21.55                 | 21.55                    | 21.49                  |                     |          |
| 10                | QPSK       | 50      | 0         | 21.55                 | 21.66                    | 21.64                  | 23                  | 1        |
| 10                | 16QAM      | 1       | 0         | 21.82                 | 21.87                    | 21.86                  |                     |          |
| 10                | 16QAM      | 1       | 25        | 21.74                 | 21.79                    | 21.75                  |                     |          |
| 10                | 16QAM      | 1       | 49        | 21.73                 | 21.70                    | 21.89                  | 22                  | 2        |
| 10                | 16QAM      | 25      | 0         | 20.59                 | 20.62                    | 20.57                  |                     |          |
| 10                | 16QAM      | 25      | 12        | 20.45                 | 20.44                    | 20.50                  |                     |          |
| 10                | 16QAM      | 25      | 25        | 20.62                 | 20.51                    | 20.50                  | 22                  | 2        |
| 10                | 16QAM      | 50      | 0         | 20.46                 | 20.43                    | 20.39                  |                     |          |
| 10                | 64QAM      | 1       | 0         | 20.63                 | 20.60                    | 20.53                  |                     |          |
| 10                | 64QAM      | 1       | 25        | 20.74                 | 20.66                    | 20.60                  | 22                  | 2        |
| 10                | 64QAM      | 1       | 49        | 20.59                 | 20.64                    | 20.53                  |                     |          |
| 10                | 64QAM      | 25      | 0         | 20.75                 | 20.67                    | 20.52                  |                     |          |
| 10                | 64QAM      | 25      | 12        | 20.60                 | 20.63                    | 20.55                  | 21                  | 3        |
| 10                | 64QAM      | 25      | 25        | 20.56                 | 20.56                    | 20.47                  |                     |          |
| 10                | 64QAM      | 50      | 0         | 20.52                 | 20.52                    | 20.52                  |                     |          |
| 10                | 256QAM     | 1       | 0         | 17.48                 | 17.54                    | 17.47                  | 19                  | 5        |
| 10                | 256QAM     | 1       | 25        | 17.31                 | 17.45                    | 17.45                  |                     |          |
| 10                | 256QAM     | 1       | 49        | 17.36                 | 17.36                    | 17.49                  |                     |          |
| 10                | 256QAM     | 25      | 0         | 17.59                 | 17.53                    | 17.50                  | 19                  | 5        |
| 10                | 256QAM     | 25      | 12        | 17.43                 | 17.54                    | 17.57                  |                     |          |
| 10                | 256QAM     | 25      | 25        | 17.56                 | 17.50                    | 17.59                  |                     |          |
| 10                | 256QAM     | 50      | 0         | 17.49                 | 17.52                    | 17.49                  |                     |          |

| Channel         |        |    |    | 23035 | 23095 | 23155 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 701.5 | 707.5 | 713.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.36 | 22.47 | 22.26 | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.32 | 22.32 | 22.35 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.30 | 22.23 | 22.33 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.50 | 21.64 | 21.61 | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.40 | 21.31 | 21.19 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.45 | 21.44 | 21.35 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.41 | 21.61 | 21.57 | 23                     | 1           |
| 5               | 16QAM  | 1  | 0  | 21.75 | 21.81 | 21.75 |                        |             |
| 5               | 16QAM  | 1  | 12 | 21.65 | 21.67 | 21.70 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.64 | 21.58 | 21.76 | 22                     | 2           |
| 5               | 16QAM  | 12 | 0  | 20.45 | 20.51 | 20.46 |                        |             |
| 5               | 16QAM  | 12 | 7  | 20.38 | 20.36 | 20.37 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.47 | 20.36 | 20.36 | 22                     | 2           |
| 5               | 16QAM  | 25 | 0  | 20.40 | 20.28 | 20.30 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.50 | 20.50 | 20.44 |                        |             |
| 5               | 64QAM  | 1  | 12 | 20.61 | 20.55 | 20.56 | 22                     | 2           |
| 5               | 64QAM  | 1  | 24 | 20.49 | 20.56 | 20.39 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.67 | 20.54 | 20.38 |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.53 | 20.55 | 20.45 | 21                     | 3           |
| 5               | 64QAM  | 12 | 13 | 20.41 | 20.45 | 20.38 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.44 | 20.42 | 20.42 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.36 | 17.39 | 17.34 | 19                     | 5           |
| 5               | 256QAM | 1  | 12 | 17.26 | 17.39 | 17.33 |                        |             |
| 5               | 256QAM | 1  | 24 | 17.30 | 17.32 | 17.38 |                        |             |
| 5               | 256QAM | 12 | 0  | 17.54 | 17.41 | 17.35 | 19                     | 5           |
| 5               | 256QAM | 12 | 7  | 17.37 | 17.43 | 17.48 |                        |             |
| 5               | 256QAM | 12 | 13 | 17.50 | 17.35 | 17.46 |                        |             |
| 5               | 256QAM | 25 | 0  | 17.36 | 17.40 | 17.37 | 19                     | 5           |
| Channel         |        |    |    | 23025 | 23095 | 23165 |                        |             |
| Frequency (MHz) |        |    |    | 700.5 | 707.5 | 714.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 22.33 | 22.45 | 22.35 | 24                     | 0           |
| 3               | QPSK   | 1  | 8  | 22.34 | 22.32 | 22.34 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.25 | 22.30 | 22.35 |                        |             |
| 3               | QPSK   | 8  | 0  | 21.48 | 21.52 | 21.59 | 23                     | 1           |
| 3               | QPSK   | 8  | 4  | 21.41 | 21.27 | 21.22 |                        |             |
| 3               | QPSK   | 8  | 7  | 21.47 | 21.45 | 21.39 |                        |             |
| 3               | QPSK   | 15 | 0  | 21.44 | 21.50 | 21.58 | 23                     | 1           |
| 3               | 16QAM  | 1  | 0  | 21.67 | 21.77 | 21.70 |                        |             |
| 3               | 16QAM  | 1  | 8  | 21.68 | 21.74 | 21.64 |                        |             |
| 3               | 16QAM  | 1  | 14 | 21.66 | 21.59 | 21.83 | 22                     | 2           |
| 3               | 16QAM  | 8  | 0  | 20.54 | 20.47 | 20.46 |                        |             |
| 3               | 16QAM  | 8  | 4  | 20.40 | 20.37 | 20.35 |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.56 | 20.38 | 20.37 | 22                     | 2           |
| 3               | 16QAM  | 15 | 0  | 20.37 | 20.35 | 20.27 |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.50 | 20.44 | 20.38 |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 3               | 64QAM  | 1  | 8  | 20.68 | 20.51 | 20.45 |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.45 | 20.49 | 20.43 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.66 | 20.61 | 20.45 |                        |             |
| 3               | 64QAM  | 8  | 4  | 20.54 | 20.54 | 20.46 | 21                     | 3           |
| 3               | 64QAM  | 8  | 7  | 20.51 | 20.50 | 20.32 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.37 | 20.39 | 20.40 |                        |             |
| 3               | 256QAM | 1  | 0  | 17.44 | 17.42 | 17.40 | 19                     | 5           |
| 3               | 256QAM | 1  | 8  | 17.16 | 17.40 | 17.29 |                        |             |
| 3               | 256QAM | 1  | 14 | 17.31 | 17.30 | 17.39 |                        |             |
| 3               | 256QAM | 8  | 0  | 17.46 | 17.43 | 17.45 | 19                     | 5           |
| 3               | 256QAM | 8  | 4  | 17.36 | 17.49 | 17.48 |                        |             |
| 3               | 256QAM | 8  | 7  | 17.51 | 17.44 | 17.46 |                        |             |
| 3               | 256QAM | 15 | 0  | 17.37 | 17.47 | 17.40 |                        |             |
| Channel         |        |    |    | 23017 | 23095 | 23173 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 699.7 | 707.5 | 715.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 22.36 | 22.41 | 22.33 | 24                     | 0           |
| 1.4             | QPSK   | 1  | 3  | 22.30 | 22.39 | 22.40 |                        |             |
| 1.4             | QPSK   | 1  | 5  | 22.30 | 22.32 | 22.43 |                        |             |
| 1.4             | QPSK   | 3  | 0  | 22.34 | 22.45 | 22.30 |                        |             |
| 1.4             | QPSK   | 3  | 1  | 22.26 | 22.39 | 22.43 |                        |             |
| 1.4             | QPSK   | 3  | 3  | 22.27 | 22.22 | 22.38 |                        |             |
| 1.4             | QPSK   | 6  | 0  | 21.41 | 21.52 | 21.50 | 23                     | 1           |
| 1.4             | 16QAM  | 1  | 0  | 21.78 | 21.76 | 21.78 | 23                     | 1           |
| 1.4             | 16QAM  | 1  | 3  | 21.63 | 21.73 | 21.71 |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 21.69 | 21.56 | 21.83 |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.74 | 21.82 | 21.75 |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 21.69 | 21.72 | 21.63 |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 21.59 | 21.60 | 21.79 |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 20.41 | 20.28 | 20.25 | 22                     | 2           |
| 1.4             | 64QAM  | 1  | 0  | 20.59 | 20.47 | 20.40 | 22                     | 2           |
| 1.4             | 64QAM  | 1  | 3  | 20.63 | 20.55 | 20.55 |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 20.51 | 20.55 | 20.39 |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 20.66 | 20.59 | 20.47 |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 20.52 | 20.49 | 20.47 |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 20.44 | 20.48 | 20.42 |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.45 | 20.47 | 20.47 | 21                     | 3           |
| 1.4             | 256QAM | 1  | 0  | 17.43 | 17.48 | 17.36 | 19                     | 5           |
| 1.4             | 256QAM | 1  | 3  | 17.25 | 17.31 | 17.38 |                        |             |
| 1.4             | 256QAM | 1  | 5  | 17.21 | 17.26 | 17.34 |                        |             |
| 1.4             | 256QAM | 3  | 0  | 17.47 | 17.40 | 17.45 |                        |             |
| 1.4             | 256QAM | 3  | 1  | 17.38 | 17.40 | 17.51 |                        |             |
| 1.4             | 256QAM | 3  | 3  | 17.47 | 17.40 | 17.48 |                        |             |
| 1.4             | 256QAM | 6  | 0  | 17.34 | 17.37 | 17.38 | 19                     | 5           |

| Band 13 Ant1 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23230                 |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 782                   |                          |                        |                     |          |
| 10                | QPSK       | 1       | 0         |                       | 22.45                    |                        | 24                  | 0        |
| 10                | QPSK       | 1       | 25        |                       | 22.37                    |                        |                     |          |
| 10                | QPSK       | 1       | 49        |                       | 22.39                    |                        |                     |          |
| 10                | QPSK       | 25      | 0         |                       | 21.62                    |                        | 23                  | 1        |
| 10                | QPSK       | 25      | 12        |                       | 21.34                    |                        |                     |          |
| 10                | QPSK       | 25      | 25        |                       | 21.45                    |                        |                     |          |
| 10                | QPSK       | 50      | 0         |                       | 21.61                    |                        | 23                  | 1        |
| 10                | 16QAM      | 1       | 0         |                       | 21.84                    |                        |                     |          |
| 10                | 16QAM      | 1       | 25        |                       | 21.70                    |                        |                     |          |
| 10                | 16QAM      | 1       | 49        |                       | 21.64                    |                        | 22                  | 2        |
| 10                | 16QAM      | 25      | 0         |                       | 20.58                    |                        |                     |          |
| 10                | 16QAM      | 25      | 12        |                       | 20.39                    |                        |                     |          |
| 10                | 16QAM      | 25      | 25        |                       | 20.43                    |                        | 22                  | 2        |
| 10                | 16QAM      | 50      | 0         |                       | 20.44                    |                        |                     |          |
| 10                | 64QAM      | 1       | 0         |                       | 20.59                    |                        |                     |          |
| 10                | 64QAM      | 1       | 25        |                       | 20.62                    |                        | 21                  | 3        |
| 10                | 64QAM      | 1       | 49        |                       | 20.46                    |                        |                     |          |
| 10                | 64QAM      | 25      | 0         |                       | 20.56                    |                        |                     |          |
| 10                | 64QAM      | 25      | 12        |                       | 20.49                    |                        | 19                  | 5        |
| 10                | 64QAM      | 25      | 25        |                       | 20.40                    |                        |                     |          |
| 10                | 64QAM      | 50      | 0         |                       | 20.44                    |                        |                     |          |
| 10                | 256QAM     | 1       | 0         |                       | 17.47                    |                        | 19                  | 5        |
| 10                | 256QAM     | 1       | 25        |                       | 17.31                    |                        |                     |          |
| 10                | 256QAM     | 1       | 49        |                       | 17.28                    |                        |                     |          |
| 10                | 256QAM     | 25      | 0         |                       | 17.57                    |                        | 19                  | 5        |
| 10                | 256QAM     | 25      | 12        |                       | 17.46                    |                        |                     |          |
| 10                | 256QAM     | 25      | 25        |                       | 17.43                    |                        |                     |          |
| 10                | 256QAM     | 50      | 0         |                       | 17.46                    |                        |                     |          |
| Channel           |            |         |           | 23205                 | 23230                    | 23255                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 779.5                 | 782                      | 784.5                  |                     |          |
| 5                 | QPSK       | 1       | 0         | 22.42                 | 22.25                    | 22.26                  | 24                  | 0        |
| 5                 | QPSK       | 1       | 12        | 22.20                 | 22.29                    | 22.31                  |                     |          |
| 5                 | QPSK       | 1       | 24        | 22.33                 | 22.21                    | 22.30                  |                     |          |
| 5                 | QPSK       | 12      | 0         | 21.41                 | 21.40                    | 21.51                  | 23                  | 1        |
| 5                 | QPSK       | 12      | 7         | 21.23                 | 21.35                    | 21.15                  |                     |          |
| 5                 | QPSK       | 12      | 13        | 21.34                 | 21.35                    | 21.28                  |                     |          |
| 5                 | QPSK       | 25      | 0         | 21.38                 | 21.52                    | 21.42                  | 23                  | 1        |
| 5                 | 16QAM      | 1       | 0         | 21.78                 | 21.69                    | 21.67                  |                     |          |
| 5                 | 16QAM      | 1       | 12        | 21.50                 | 21.57                    | 21.56                  |                     |          |
| 5                 | 16QAM      | 1       | 24        | 21.64                 | 21.53                    | 21.70                  | 22                  | 2        |
| 5                 | 16QAM      | 12      | 0         | 20.45                 | 20.44                    | 20.38                  |                     |          |

|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | 16QAM  | 12 | 7  | 20.30 | 20.26 | 20.25 |    |   |
| 5 | 16QAM  | 12 | 13 | 20.39 | 20.30 | 20.33 |    |   |
| 5 | 16QAM  | 25 | 0  | 20.37 | 20.27 | 20.29 |    |   |
| 5 | 64QAM  | 1  | 0  | 20.48 | 20.45 | 20.36 | 22 | 2 |
| 5 | 64QAM  | 1  | 12 | 20.60 | 20.49 | 20.54 |    |   |
| 5 | 64QAM  | 1  | 24 | 20.37 | 20.40 | 20.33 |    |   |
| 5 | 64QAM  | 12 | 0  | 20.60 | 20.46 | 20.38 | 21 | 3 |
| 5 | 64QAM  | 12 | 7  | 20.45 | 20.41 | 20.46 |    |   |
| 5 | 64QAM  | 12 | 13 | 20.40 | 20.33 | 20.29 |    |   |
| 5 | 64QAM  | 25 | 0  | 20.40 | 20.48 | 20.44 |    |   |
| 5 | 256QAM | 1  | 0  | 17.35 | 17.39 | 17.37 | 19 | 5 |
| 5 | 256QAM | 1  | 12 | 17.19 | 17.20 | 17.33 |    |   |
| 5 | 256QAM | 1  | 24 | 17.18 | 17.26 | 17.29 |    |   |
| 5 | 256QAM | 12 | 0  | 17.35 | 17.37 | 17.33 | 19 | 5 |
| 5 | 256QAM | 12 | 7  | 17.29 | 17.33 | 17.44 |    |   |
| 5 | 256QAM | 12 | 13 | 17.38 | 17.46 | 17.44 |    |   |
| 5 | 256QAM | 25 | 0  | 17.16 | 17.29 | 17.31 |    |   |

| Band 14 Ant1 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23330                 |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 793                   |                          |                        |                     |          |
| 10                | QPSK       | 1       | 0         |                       | 22.47                    |                        | 24                  | 0        |
| 10                | QPSK       | 1       | 25        |                       | 22.36                    |                        |                     |          |
| 10                | QPSK       | 1       | 49        |                       | 22.41                    |                        |                     |          |
| 10                | QPSK       | 25      | 0         |                       | 21.54                    |                        | 23                  | 1        |
| 10                | QPSK       | 25      | 12        |                       | 21.36                    |                        |                     |          |
| 10                | QPSK       | 25      | 25        |                       | 21.52                    |                        |                     |          |
| 10                | QPSK       | 50      | 0         |                       | 21.60                    |                        | 23                  | 1        |
| 10                | 16QAM      | 1       | 0         |                       | 21.86                    |                        |                     |          |
| 10                | 16QAM      | 1       | 25        |                       | 21.65                    |                        |                     |          |
| 10                | 16QAM      | 1       | 49        |                       | 21.71                    |                        | 22                  | 2        |
| 10                | 16QAM      | 25      | 0         |                       | 20.57                    |                        |                     |          |
| 10                | 16QAM      | 25      | 12        |                       | 20.32                    |                        |                     |          |
| 10                | 16QAM      | 25      | 25        |                       | 20.46                    |                        | 22                  | 2        |
| 10                | 16QAM      | 50      | 0         |                       | 20.43                    |                        |                     |          |
| 10                | 64QAM      | 1       | 0         |                       | 20.61                    |                        |                     |          |
| 10                | 64QAM      | 1       | 25        |                       | 20.56                    |                        | 22                  | 2        |
| 10                | 64QAM      | 1       | 49        |                       | 20.59                    |                        |                     |          |
| 10                | 64QAM      | 25      | 0         |                       | 20.64                    |                        |                     |          |
| 10                | 64QAM      | 25      | 12        |                       | 20.57                    |                        | 21                  | 3        |
| 10                | 64QAM      | 25      | 25        |                       | 20.51                    |                        |                     |          |
| 10                | 64QAM      | 50      | 0         |                       | 20.48                    |                        |                     |          |
| 10                | 256QAM     | 1       | 0         |                       | 17.46                    |                        | 19                  | 5        |
| 10                | 256QAM     | 1       | 25        |                       | 17.34                    |                        |                     |          |
| 10                | 256QAM     | 1       | 49        |                       | 17.32                    |                        |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 256QAM | 25 | 0  |       | 17.56 |       | 19                     | 5           |
| 10              | 256QAM | 25 | 12 |       | 17.40 |       |                        |             |
| 10              | 256QAM | 25 | 25 |       | 17.43 |       |                        |             |
| 10              | 256QAM | 50 | 0  |       | 17.47 |       |                        |             |
| Channel         |        |    |    | 23305 | 23330 | 23355 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 790.5 | 793   | 795.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.41 | 22.40 | 22.30 | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.29 | 22.34 | 22.26 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.25 | 22.19 | 22.25 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.47 | 21.42 | 21.51 | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.20 | 21.21 | 21.14 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.38 | 21.30 | 21.33 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.40 | 21.43 | 21.47 |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.72 | 21.66 | 21.73 | 23                     | 1           |
| 5               | 16QAM  | 1  | 12 | 21.54 | 21.56 | 21.52 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.69 | 21.68 | 21.70 |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.49 | 20.49 | 20.40 | 22                     | 2           |
| 5               | 16QAM  | 12 | 7  | 20.35 | 20.25 | 20.30 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.45 | 20.36 | 20.41 |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.37 | 20.28 | 20.28 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.46 | 20.54 | 20.46 | 22                     | 2           |
| 5               | 64QAM  | 1  | 12 | 20.63 | 20.50 | 20.52 |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.52 | 20.45 | 20.41 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.56 | 20.50 | 20.35 | 21                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.44 | 20.44 | 20.40 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.35 | 20.38 | 20.33 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.43 | 20.40 | 20.42 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.39 | 17.29 | 17.30 | 19                     | 5           |
| 5               | 256QAM | 1  | 12 | 17.16 | 17.29 | 17.31 |                        |             |
| 5               | 256QAM | 1  | 24 | 17.26 | 17.19 | 17.27 |                        |             |
| 5               | 256QAM | 12 | 0  | 17.33 | 17.49 | 17.36 | 19                     | 5           |
| 5               | 256QAM | 12 | 7  | 17.31 | 17.43 | 17.38 |                        |             |
| 5               | 256QAM | 12 | 13 | 17.39 | 17.34 | 17.53 |                        |             |
| 5               | 256QAM | 25 | 0  | 17.32 | 17.30 | 17.29 |                        |             |

| Band 17 Ant1 DSI4 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 23780                    | 23790                       | 23800                     |                        |             |
| Frequency (MHz)   |            |         |           | 709                      | 710                         | 711                       |                        |             |
| 10                | QPSK       | 1       | 0         | 22.60                    | 22.66                       | 22.51                     | 24                     | 0           |
| 10                | QPSK       | 1       | 25        | 22.63                    | 22.64                       | 22.58                     |                        |             |
| 10                | QPSK       | 1       | 49        | 22.52                    | 22.57                       | 22.60                     |                        |             |
| 10                | QPSK       | 25      | 0         | 21.77                    | 21.83                       | 21.82                     | 23                     | 1           |
| 10                | QPSK       | 25      | 12        | 21.56                    | 21.62                       | 21.51                     |                        |             |
| 10                | QPSK       | 25      | 25        | 21.74                    | 21.71                       | 21.64                     |                        |             |
| 10                | QPSK       | 50      | 0         | 21.71                    | 21.79                       | 21.71                     |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 1  | 0  | 22.00 | 22.02 | 22.09 | 23                     | 1           |
| 10              | 16QAM  | 1  | 25 | 21.79 | 21.88 | 21.82 |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.93 | 21.93 | 21.92 |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.83 | 20.71 | 20.61 | 22                     | 2           |
| 10              | 16QAM  | 25 | 12 | 20.55 | 20.54 | 20.56 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.71 | 20.68 | 20.65 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.59 | 20.64 | 20.55 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.77 | 20.72 | 20.71 | 22                     | 2           |
| 10              | 64QAM  | 1  | 25 | 20.81 | 20.82 | 20.81 |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.66 | 20.76 | 20.70 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.82 | 20.78 | 20.72 | 21                     | 3           |
| 10              | 64QAM  | 25 | 12 | 20.69 | 20.77 | 20.68 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.60 | 20.62 | 20.63 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.71 | 20.74 | 20.68 |                        |             |
| 10              | 256QAM | 1  | 0  | 17.58 | 17.58 | 17.65 | 19                     | 5           |
| 10              | 256QAM | 1  | 25 | 17.50 | 17.61 | 17.58 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.51 | 17.48 | 17.54 |                        |             |
| 10              | 256QAM | 25 | 0  | 17.64 | 17.74 | 17.66 | 19                     | 5           |
| 10              | 256QAM | 25 | 12 | 17.62 | 17.63 | 17.73 |                        |             |
| 10              | 256QAM | 25 | 25 | 17.72 | 17.61 | 17.75 |                        |             |
| 10              | 256QAM | 50 | 0  | 17.57 | 17.60 | 17.52 |                        |             |
| Channel         |        |    |    | 23755 | 23790 | 23825 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 706.5 | 710   | 713.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.47 | 22.56 | 22.37 | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.52 | 22.54 | 22.53 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.45 | 22.49 | 22.44 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.70 | 21.73 | 21.75 | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.41 | 21.48 | 21.36 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.69 | 21.61 | 21.52 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.57 | 21.67 | 21.57 |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.87 | 21.93 | 21.99 | 23                     | 1           |
| 5               | 16QAM  | 1  | 12 | 21.73 | 21.77 | 21.68 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.85 | 21.85 | 21.82 |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.69 | 20.62 | 20.57 | 22                     | 2           |
| 5               | 16QAM  | 12 | 7  | 20.51 | 20.49 | 20.46 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.60 | 20.62 | 20.59 |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.44 | 20.53 | 20.42 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.63 | 20.63 | 20.59 | 22                     | 2           |
| 5               | 64QAM  | 1  | 12 | 20.68 | 20.76 | 20.69 |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.60 | 20.63 | 20.62 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.75 | 20.70 | 20.57 |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.57 | 20.71 | 20.63 | 21                     | 3           |
| 5               | 64QAM  | 12 | 13 | 20.54 | 20.56 | 20.51 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.57 | 20.69 | 20.55 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.46 | 17.49 | 17.54 |                        |             |
| 5               | 256QAM | 1  | 12 | 17.46 | 17.57 | 17.48 | 19                     | 5           |
| 5               | 256QAM | 1  | 24 | 17.39 | 17.43 | 17.44 |                        |             |

|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | 256QAM | 12 | 0  | 17.49 | 17.61 | 17.56 | 19 | 5 |
| 5 | 256QAM | 12 | 7  | 17.51 | 17.54 | 17.59 |    |   |
| 5 | 256QAM | 12 | 13 | 17.60 | 17.57 | 17.64 |    |   |
| 5 | 256QAM | 25 | 0  | 17.48 | 17.55 | 17.42 |    |   |

| Band 26 Ant1 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |
| Frequency (MHz)   |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15                | QPSK       | 1       | 0         | 22.30                 | 22.34                    | 22.22                  | 23.6                | 0        |
| 15                | QPSK       | 1       | 37        | 22.23                 | 22.30                    | 22.32                  |                     |          |
| 15                | QPSK       | 1       | 74        | 22.19                 | 22.22                    | 22.26                  |                     |          |
| 15                | QPSK       | 36      | 0         | 21.47                 | 21.49                    | 21.47                  | 23                  | 0.6      |
| 15                | QPSK       | 36      | 20        | 21.21                 | 21.26                    | 21.10                  |                     |          |
| 15                | QPSK       | 36      | 39        | 21.37                 | 21.32                    | 21.40                  |                     |          |
| 15                | QPSK       | 75      | 0         | 21.40                 | 21.47                    | 21.40                  | 23                  | 0.6      |
| 15                | 16QAM      | 1       | 0         | 21.72                 | 21.67                    | 21.74                  |                     |          |
| 15                | 16QAM      | 1       | 37        | 21.53                 | 21.55                    | 21.53                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 21.59                 | 21.59                    | 21.65                  | 22                  | 1.6      |
| 15                | 16QAM      | 36      | 0         | 20.50                 | 20.45                    | 20.34                  |                     |          |
| 15                | 16QAM      | 36      | 20        | 20.22                 | 20.22                    | 20.31                  |                     |          |
| 15                | 16QAM      | 36      | 39        | 20.37                 | 20.35                    | 20.27                  | 22                  | 1.6      |
| 15                | 16QAM      | 75      | 0         | 20.34                 | 20.25                    | 20.26                  |                     |          |
| 15                | 64QAM      | 1       | 0         | 20.53                 | 20.50                    | 20.42                  |                     |          |
| 15                | 64QAM      | 1       | 37        | 20.56                 | 20.45                    | 20.49                  | 22                  | 1.6      |
| 15                | 64QAM      | 1       | 74        | 20.46                 | 20.41                    | 20.39                  |                     |          |
| 15                | 64QAM      | 36      | 0         | 20.52                 | 20.49                    | 20.40                  | 21                  | 2.6      |
| 15                | 64QAM      | 36      | 20        | 20.49                 | 20.37                    | 20.43                  |                     |          |
| 15                | 64QAM      | 36      | 39        | 20.34                 | 20.35                    | 20.32                  |                     |          |
| 15                | 64QAM      | 75      | 0         | 20.36                 | 20.37                    | 20.38                  | 19                  | 4.6      |
| 15                | 256QAM     | 1       | 0         | 17.25                 | 17.25                    | 17.25                  |                     |          |
| 15                | 256QAM     | 1       | 37        | 17.11                 | 17.27                    | 17.27                  |                     |          |
| 15                | 256QAM     | 1       | 74        | 17.21                 | 17.19                    | 17.31                  | 19                  | 4.6      |
| 15                | 256QAM     | 36      | 0         | 17.44                 | 17.34                    | 17.36                  |                     |          |
| 15                | 256QAM     | 36      | 20        | 17.25                 | 17.28                    | 17.44                  |                     |          |
| 15                | 256QAM     | 36      | 39        | 17.39                 | 17.30                    | 17.41                  | 19                  | 4.6      |
| 15                | 256QAM     | 75      | 0         | 17.30                 | 17.30                    | 17.30                  |                     |          |
| Channel           |            |         |           | 26740                 | 26865                    | 26990                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 819                   | 831.5                    | 844                    |                     |          |
| 10                | QPSK       | 1       | 0         | 22.20                 | 22.21                    | 22.06                  |                     |          |
| 10                | QPSK       | 1       | 25        | 22.12                 | 22.17                    | 22.21                  | 23.6                | 0        |
| 10                | QPSK       | 1       | 49        | 22.09                 | 22.18                    | 22.14                  |                     |          |
| 10                | QPSK       | 25      | 0         | 21.41                 | 21.35                    | 21.33                  | 23                  | 0.6      |
| 10                | QPSK       | 25      | 12        | 21.11                 | 21.20                    | 21.03                  |                     |          |
| 10                | QPSK       | 25      | 25        | 21.33                 | 21.23                    | 21.32                  |                     |          |
| 10                | QPSK       | 50      | 0         | 21.30                 | 21.40                    | 21.26                  | 23                  | 0.6      |



|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 1  | 0  | 21.61 | 21.60 | 21.67 | 23                     | 0.6         |
| 10              | 16QAM  | 1  | 25 | 21.47 | 21.45 | 21.39 |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.47 | 21.50 | 21.60 |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.45 | 20.35 | 20.21 | 22                     | 1.6         |
| 10              | 16QAM  | 25 | 12 | 20.11 | 20.16 | 20.16 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.26 | 20.21 | 20.18 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.25 | 20.12 | 20.12 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.38 | 20.35 | 20.36 | 22                     | 1.6         |
| 10              | 64QAM  | 1  | 25 | 20.42 | 20.34 | 20.41 |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.38 | 20.32 | 20.29 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.47 | 20.43 | 20.27 | 21                     | 2.6         |
| 10              | 64QAM  | 25 | 12 | 20.41 | 20.24 | 20.36 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.27 | 20.20 | 20.17 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.30 | 20.32 | 20.24 |                        |             |
| 10              | 256QAM | 1  | 0  | 17.16 | 17.20 | 17.20 | 19                     | 4.6         |
| 10              | 256QAM | 1  | 25 | 17.06 | 17.20 | 17.13 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.07 | 17.15 | 17.17 |                        |             |
| 10              | 256QAM | 25 | 0  | 17.37 | 17.21 | 17.32 | 19                     | 4.6         |
| 10              | 256QAM | 25 | 12 | 17.10 | 17.13 | 17.30 |                        |             |
| 10              | 256QAM | 25 | 25 | 17.34 | 17.14 | 17.31 |                        |             |
| 10              | 256QAM | 50 | 0  | 17.25 | 17.20 | 17.22 |                        |             |
| Channel         |        |    |    | 26715 | 26865 | 27015 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 816.5 | 831.5 | 846.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.22 | 22.21 | 22.14 | 23.6                   | 0           |
| 5               | QPSK   | 1  | 12 | 22.11 | 22.23 | 22.27 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.05 | 22.11 | 22.16 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.32 | 21.35 | 21.39 | 23                     | 0.6         |
| 5               | QPSK   | 12 | 7  | 21.13 | 21.13 | 21.06 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.27 | 21.22 | 21.28 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.29 | 21.32 | 21.30 |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.65 | 21.55 | 21.69 | 23                     | 0.6         |
| 5               | 16QAM  | 1  | 12 | 21.47 | 21.49 | 21.40 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.54 | 21.52 | 21.50 |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.42 | 20.32 | 20.23 | 22                     | 1.6         |
| 5               | 16QAM  | 12 | 7  | 20.08 | 20.09 | 20.15 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.28 | 20.22 | 20.15 |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.20 | 20.14 | 20.17 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.43 | 20.43 | 20.38 | 22                     | 1.6         |
| 5               | 64QAM  | 1  | 12 | 20.45 | 20.39 | 20.40 |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.35 | 20.25 | 20.27 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.40 | 20.36 | 20.30 | 21                     | 2.6         |
| 5               | 64QAM  | 12 | 7  | 20.36 | 20.31 | 20.34 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.27 | 20.21 | 20.20 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.23 | 20.31 | 20.27 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.12 | 17.17 | 17.13 | 19                     | 4.6         |
| 5               | 256QAM | 1  | 12 | 17.04 | 17.13 | 17.20 |                        |             |
| 5               | 256QAM | 1  | 24 | 17.16 | 17.09 | 17.27 |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 5               | 256QAM | 12 | 0  | 17.34 | 17.22 | 17.24 | 19                     | 4.6         |
| 5               | 256QAM | 12 | 7  | 17.15 | 17.14 | 17.34 |                        |             |
| 5               | 256QAM | 12 | 13 | 17.28 | 17.22 | 17.28 |                        |             |
| 5               | 256QAM | 25 | 0  | 17.21 | 17.25 | 17.23 |                        |             |
| Channel         |        |    |    | 26705 | 26865 | 27025 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 815.5 | 831.5 | 847.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 22.16 | 22.29 | 22.08 | 23.6                   | 0           |
| 3               | QPSK   | 1  | 8  | 22.17 | 22.15 | 22.22 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.10 | 22.10 | 22.13 |                        |             |
| 3               | QPSK   | 8  | 0  | 21.36 | 21.39 | 21.38 | 23                     | 0.6         |
| 3               | QPSK   | 8  | 4  | 21.09 | 21.16 | 21.04 |                        |             |
| 3               | QPSK   | 8  | 7  | 21.30 | 21.21 | 21.32 |                        |             |
| 3               | QPSK   | 15 | 0  | 21.33 | 21.36 | 21.25 |                        |             |
| 3               | 16QAM  | 1  | 0  | 21.66 | 21.56 | 21.60 | 23                     | 0.6         |
| 3               | 16QAM  | 1  | 8  | 21.39 | 21.40 | 21.48 |                        |             |
| 3               | 16QAM  | 1  | 14 | 21.54 | 21.54 | 21.52 |                        |             |
| 3               | 16QAM  | 8  | 0  | 20.35 | 20.33 | 20.27 | 22                     | 1.6         |
| 3               | 16QAM  | 8  | 4  | 20.06 | 20.11 | 20.21 |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.30 | 20.24 | 20.15 |                        |             |
| 3               | 16QAM  | 15 | 0  | 20.24 | 20.15 | 20.18 |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.48 | 20.39 | 20.27 | 22                     | 1.6         |
| 3               | 64QAM  | 1  | 8  | 20.41 | 20.34 | 20.38 |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.34 | 20.34 | 20.32 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.36 | 20.39 | 20.31 | 21                     | 2.6         |
| 3               | 64QAM  | 8  | 4  | 20.37 | 20.29 | 20.31 |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.23 | 20.22 | 20.18 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.25 | 20.24 | 20.24 |                        |             |
| 3               | 256QAM | 1  | 0  | 17.17 | 17.19 | 17.17 | 19                     | 4.6         |
| 3               | 256QAM | 1  | 8  | 17.03 | 17.19 | 17.13 |                        |             |
| 3               | 256QAM | 1  | 14 | 17.17 | 17.09 | 17.25 |                        |             |
| 3               | 256QAM | 8  | 0  | 17.35 | 17.28 | 17.22 | 19                     | 4.6         |
| 3               | 256QAM | 8  | 4  | 17.19 | 17.23 | 17.35 |                        |             |
| 3               | 256QAM | 8  | 7  | 17.26 | 17.24 | 17.36 |                        |             |
| 3               | 256QAM | 15 | 0  | 17.23 | 17.18 | 17.22 |                        |             |
| Channel         |        |    |    | 26697 | 26865 | 27033 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 814.7 | 831.5 | 848.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 22.15 | 22.22 | 22.15 | 23.6                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 22.14 | 22.22 | 22.23 |                        |             |
| 1.4             | QPSK   | 1  | 5  | 22.15 | 22.12 | 22.19 |                        |             |
| 1.4             | QPSK   | 3  | 0  | 22.18 | 22.29 | 22.17 |                        |             |
| 1.4             | QPSK   | 3  | 1  | 22.09 | 22.17 | 22.24 |                        |             |
| 1.4             | QPSK   | 3  | 3  | 22.09 | 22.09 | 22.10 |                        |             |
| 1.4             | QPSK   | 6  | 0  | 21.25 | 21.37 | 21.25 | 23                     | 0.6         |
| 1.4             | 16QAM  | 1  | 0  | 21.58 | 21.54 | 21.64 | 23                     | 0.6         |
| 1.4             | 16QAM  | 1  | 3  | 21.47 | 21.48 | 21.46 |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 21.51 | 21.45 | 21.58 |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.56 | 21.60 | 21.60 |                        |             |

|     |        |   |   |       |       |       |    |     |
|-----|--------|---|---|-------|-------|-------|----|-----|
| 1.4 | 16QAM  | 3 | 1 | 21.40 | 21.48 | 21.48 |    |     |
| 1.4 | 16QAM  | 3 | 3 | 21.47 | 21.54 | 21.58 |    |     |
| 1.4 | 16QAM  | 6 | 0 | 20.18 | 20.14 | 20.19 | 22 | 1.6 |
| 1.4 | 64QAM  | 1 | 0 | 20.42 | 20.44 | 20.37 | 22 | 1.6 |
| 1.4 | 64QAM  | 1 | 3 | 20.46 | 20.36 | 20.42 |    |     |
| 1.4 | 64QAM  | 1 | 5 | 20.37 | 20.25 | 20.26 |    |     |
| 1.4 | 64QAM  | 3 | 0 | 20.45 | 20.40 | 20.34 |    |     |
| 1.4 | 64QAM  | 3 | 1 | 20.36 | 20.28 | 20.28 |    |     |
| 1.4 | 64QAM  | 3 | 3 | 20.27 | 20.24 | 20.21 |    |     |
| 1.4 | 64QAM  | 6 | 0 | 20.30 | 20.30 | 20.29 | 21 | 2.6 |
| 1.4 | 256QAM | 1 | 0 | 17.17 | 17.15 | 17.21 | 19 | 4.6 |
| 1.4 | 256QAM | 1 | 3 | 17.02 | 17.17 | 17.11 |    |     |
| 1.4 | 256QAM | 1 | 5 | 17.11 | 17.11 | 17.24 |    |     |
| 1.4 | 256QAM | 3 | 0 | 17.38 | 17.26 | 17.22 |    |     |
| 1.4 | 256QAM | 3 | 1 | 17.15 | 17.13 | 17.29 |    |     |
| 1.4 | 256QAM | 3 | 3 | 17.27 | 17.25 | 17.30 |    |     |
| 1.4 | 256QAM | 6 | 0 | 17.20 | 17.18 | 17.18 | 19 | 4.6 |

| Band 71 Ant1 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 133222                | 133297                   | 133372                 |                     |          |
| Frequency (MHz)   |            |         |           | 673                   | 680.5                    | 688                    |                     |          |
| 20                | QPSK       | 1       | 0         | 21.96                 | 21.99                    | 21.94                  | 23.5                | 0        |
| 20                | QPSK       | 1       | 49        | 21.91                 | 21.96                    | 21.90                  |                     |          |
| 20                | QPSK       | 1       | 99        | 21.92                 | 21.93                    | 21.92                  |                     |          |
| 20                | QPSK       | 50      | 0         | 21.04                 | 21.12                    | 21.05                  | 22.5                | 1        |
| 20                | QPSK       | 50      | 24        | 20.88                 | 20.86                    | 20.81                  |                     |          |
| 20                | QPSK       | 50      | 50        | 21.03                 | 21.05                    | 21.00                  |                     |          |
| 20                | QPSK       | 100     | 0         | 21.08                 | 21.15                    | 21.10                  | 22.5                | 1        |
| 20                | 16QAM      | 1       | 0         | 21.33                 | 21.41                    | 21.42                  |                     |          |
| 20                | 16QAM      | 1       | 49        | 21.19                 | 21.20                    | 21.23                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 21.22                 | 21.17                    | 21.33                  | 21.5                | 2        |
| 20                | 16QAM      | 50      | 0         | 20.13                 | 20.11                    | 20.00                  |                     |          |
| 20                | 16QAM      | 50      | 24        | 19.85                 | 19.88                    | 19.87                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 20.05                 | 20.04                    | 19.93                  | 21.5                | 2        |
| 20                | 16QAM      | 100     | 0         | 19.91                 | 19.96                    | 19.87                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 20.18                 | 20.05                    | 20.00                  |                     |          |
| 20                | 64QAM      | 1       | 49        | 20.19                 | 20.15                    | 20.12                  | 21.5                | 2        |
| 20                | 64QAM      | 1       | 99        | 19.99                 | 20.01                    | 20.01                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 20.22                 | 20.09                    | 19.99                  |                     |          |
| 20                | 64QAM      | 50      | 24        | 20.02                 | 20.05                    | 20.10                  | 20.5                | 3        |
| 20                | 64QAM      | 50      | 50        | 19.94                 | 19.99                    | 19.97                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 20.01                 | 20.06                    | 20.10                  |                     |          |
| 20                | 256QAM     | 1       | 0         | 16.89                 | 16.92                    | 16.96                  | 18.5                | 5        |
| 20                | 256QAM     | 1       | 49        | 16.83                 | 16.89                    | 16.93                  |                     |          |

|                 |        |     |    |        |        |        |                        |             |
|-----------------|--------|-----|----|--------|--------|--------|------------------------|-------------|
| 20              | 256QAM | 1   | 99 | 16.87  | 16.84  | 16.89  |                        |             |
| 20              | 256QAM | 50  | 0  | 16.99  | 17.09  | 16.92  | 18.5                   | 5           |
| 20              | 256QAM | 50  | 24 | 16.88  | 16.92  | 17.02  |                        |             |
| 20              | 256QAM | 50  | 50 | 17.04  | 17.05  | 17.14  |                        |             |
| 20              | 256QAM | 100 | 0  | 16.90  | 16.91  | 16.89  |                        |             |
| Channel         |        |     |    | 133197 | 133297 | 133397 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 670.5  | 680.5  | 690.5  |                        |             |
| 15              | QPSK   | 1   | 0  | 21.83  | 21.84  | 21.85  | 23.5                   | 0           |
| 15              | QPSK   | 1   | 37 | 21.82  | 21.87  | 21.84  |                        |             |
| 15              | QPSK   | 1   | 74 | 21.83  | 21.77  | 21.83  |                        |             |
| 15              | QPSK   | 36  | 0  | 20.89  | 20.96  | 20.94  | 22.5                   | 1           |
| 15              | QPSK   | 36  | 20 | 20.76  | 20.76  | 20.70  |                        |             |
| 15              | QPSK   | 36  | 39 | 20.98  | 20.96  | 20.93  |                        |             |
| 15              | QPSK   | 75  | 0  | 20.94  | 20.99  | 20.97  |                        |             |
| 15              | 16QAM  | 1   | 0  | 21.24  | 21.36  | 21.36  | 22.5                   | 1           |
| 15              | 16QAM  | 1   | 37 | 21.04  | 21.15  | 21.13  |                        |             |
| 15              | 16QAM  | 1   | 74 | 21.10  | 21.07  | 21.20  |                        |             |
| 15              | 16QAM  | 36  | 0  | 20.03  | 20.02  | 19.93  | 21.5                   | 2           |
| 15              | 16QAM  | 36  | 20 | 19.77  | 19.79  | 19.79  |                        |             |
| 15              | 16QAM  | 36  | 39 | 19.95  | 19.94  | 19.87  |                        |             |
| 15              | 16QAM  | 75  | 0  | 19.86  | 19.92  | 19.77  |                        |             |
| 15              | 64QAM  | 1   | 0  | 20.09  | 19.89  | 19.94  | 21.5                   | 2           |
| 15              | 64QAM  | 1   | 37 | 20.13  | 20.08  | 19.99  |                        |             |
| 15              | 64QAM  | 1   | 74 | 19.84  | 19.93  | 19.93  |                        |             |
| 15              | 64QAM  | 36  | 0  | 20.09  | 19.97  | 19.89  | 20.5                   | 3           |
| 15              | 64QAM  | 36  | 20 | 19.96  | 19.95  | 20.00  |                        |             |
| 15              | 64QAM  | 36  | 39 | 19.81  | 19.87  | 19.87  |                        |             |
| 15              | 64QAM  | 75  | 0  | 19.90  | 19.96  | 19.96  |                        |             |
| 15              | 256QAM | 1   | 0  | 16.80  | 16.84  | 16.89  | 18.5                   | 5           |
| 15              | 256QAM | 1   | 37 | 16.71  | 16.75  | 16.84  |                        |             |
| 15              | 256QAM | 1   | 74 | 16.81  | 16.73  | 16.81  |                        |             |
| 15              | 256QAM | 36  | 0  | 16.89  | 17.03  | 16.78  | 18.5                   | 5           |
| 15              | 256QAM | 36  | 20 | 16.84  | 16.83  | 16.97  |                        |             |
| 15              | 256QAM | 36  | 39 | 16.91  | 16.94  | 17.02  |                        |             |
| 15              | 256QAM | 75  | 0  | 16.78  | 16.82  | 16.78  |                        |             |
| Channel         |        |     |    | 133172 | 133297 | 133422 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 668    | 680.5  | 693    |                        |             |
| 10              | QPSK   | 1   | 0  | 21.91  | 21.93  | 21.88  | 23.5                   | 0           |
| 10              | QPSK   | 1   | 25 | 21.79  | 21.91  | 21.79  |                        |             |
| 10              | QPSK   | 1   | 49 | 21.83  | 21.85  | 21.83  |                        |             |
| 10              | QPSK   | 25  | 0  | 20.88  | 20.98  | 20.98  | 22.5                   | 1           |
| 10              | QPSK   | 25  | 12 | 20.74  | 20.78  | 20.71  |                        |             |
| 10              | QPSK   | 25  | 25 | 20.87  | 20.99  | 20.93  |                        |             |
| 10              | QPSK   | 50  | 0  | 20.93  | 20.99  | 21.06  |                        |             |
| 10              | 16QAM  | 1   | 0  | 21.21  | 21.31  | 21.28  | 22.5                   | 1           |
| 10              | 16QAM  | 1   | 25 | 21.15  | 21.14  | 21.19  |                        |             |
| 10              | 16QAM  | 1   | 49 | 21.17  | 21.08  | 21.28  |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 10              | 16QAM  | 25 | 0  | 20.02  | 20.00  | 19.85  | 21.5                   | 2           |
| 10              | 16QAM  | 25 | 12 | 19.70  | 19.84  | 19.77  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.97  | 19.92  | 19.81  |                        |             |
| 10              | 16QAM  | 50 | 0  | 19.77  | 19.90  | 19.72  |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.02  | 19.99  | 19.91  | 21.5                   | 2           |
| 10              | 64QAM  | 1  | 25 | 20.06  | 20.01  | 19.96  |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.88  | 19.87  | 19.88  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.16  | 20.04  | 19.87  | 20.5                   | 3           |
| 10              | 64QAM  | 25 | 12 | 19.97  | 19.90  | 20.06  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.86  | 19.89  | 19.91  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.88  | 19.94  | 20.05  |                        |             |
| 10              | 256QAM | 1  | 0  | 16.84  | 16.79  | 16.92  | 18.5                   | 5           |
| 10              | 256QAM | 1  | 25 | 16.77  | 16.83  | 16.86  |                        |             |
| 10              | 256QAM | 1  | 49 | 16.76  | 16.68  | 16.74  |                        |             |
| 10              | 256QAM | 25 | 0  | 16.90  | 16.93  | 16.86  | 18.5                   | 5           |
| 10              | 256QAM | 25 | 12 | 16.75  | 16.82  | 16.87  |                        |             |
| 10              | 256QAM | 25 | 25 | 16.92  | 16.89  | 17.00  |                        |             |
| 10              | 256QAM | 50 | 0  | 16.86  | 16.84  | 16.74  |                        |             |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |             |
| 5               | QPSK   | 1  | 0  | 21.81  | 21.92  | 21.83  | 23.5                   | 0           |
| 5               | QPSK   | 1  | 12 | 21.81  | 21.84  | 21.82  |                        |             |
| 5               | QPSK   | 1  | 24 | 21.81  | 21.82  | 21.76  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.91  | 21.07  | 20.96  | 22.5                   | 1           |
| 5               | QPSK   | 12 | 7  | 20.73  | 20.78  | 20.68  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.93  | 20.99  | 20.90  |                        |             |
| 5               | QPSK   | 25 | 0  | 21.03  | 21.09  | 20.96  |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.26  | 21.26  | 21.34  | 22.5                   | 1           |
| 5               | 16QAM  | 1  | 12 | 21.08  | 21.12  | 21.15  |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.07  | 21.09  | 21.22  |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.09  | 19.97  | 19.85  | 21.5                   | 2           |
| 5               | 16QAM  | 12 | 7  | 19.73  | 19.79  | 19.75  |                        |             |
| 5               | 16QAM  | 12 | 13 | 19.91  | 19.88  | 19.85  |                        |             |
| 5               | 16QAM  | 25 | 0  | 19.84  | 19.91  | 19.73  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.12  | 19.91  | 19.87  | 21.5                   | 2           |
| 5               | 64QAM  | 1  | 12 | 20.10  | 20.00  | 20.05  |                        |             |
| 5               | 64QAM  | 1  | 24 | 19.85  | 19.92  | 19.94  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.06  | 20.00  | 19.86  | 20.5                   | 3           |
| 5               | 64QAM  | 12 | 7  | 19.86  | 20.00  | 20.02  |                        |             |
| 5               | 64QAM  | 12 | 13 | 19.80  | 19.87  | 19.88  |                        |             |
| 5               | 64QAM  | 25 | 0  | 19.88  | 19.93  | 19.96  |                        |             |
| 5               | 256QAM | 1  | 0  | 16.83  | 16.83  | 16.85  | 18.5                   | 5           |
| 5               | 256QAM | 1  | 12 | 16.73  | 16.83  | 16.88  |                        |             |
| 5               | 256QAM | 1  | 24 | 16.74  | 16.73  | 16.78  |                        |             |
| 5               | 256QAM | 12 | 0  | 16.90  | 17.01  | 16.78  | 18.5                   | 5           |
| 5               | 256QAM | 12 | 7  | 16.81  | 16.81  | 16.91  |                        |             |
| 5               | 256QAM | 12 | 13 | 16.90  | 16.89  | 17.06  |                        |             |



|   |        |    |   |       |       |       |  |  |
|---|--------|----|---|-------|-------|-------|--|--|
| 5 | 256QAM | 25 | 0 | 16.77 | 16.76 | 16.82 |  |  |
|---|--------|----|---|-------|-------|-------|--|--|

| Band 2 Ant2 DSI4 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 18700                 | 18900                    | 19100                  |                     |          |
| Frequency (MHz)  |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20               | QPSK       | 1       | 0         | 19.16                 | 19.52                    | 19.26                  | 20.2                | 0        |
| 20               | QPSK       | 1       | 49        | 19.24                 | 19.29                    | 19.49                  |                     |          |
| 20               | QPSK       | 1       | 99        | 19.37                 | 19.49                    | 19.32                  |                     |          |
| 20               | QPSK       | 50      | 0         | 19.04                 | 19.49                    | 19.27                  | 20.2                | 0        |
| 20               | QPSK       | 50      | 24        | 19.35                 | 19.13                    | 19.38                  |                     |          |
| 20               | QPSK       | 50      | 50        | 19.24                 | 19.16                    | 19.29                  |                     |          |
| 20               | QPSK       | 100     | 0         | 19.04                 | 19.16                    | 19.01                  | 20.2                | 0        |
| 20               | 16QAM      | 1       | 0         | 19.06                 | 19.43                    | 19.19                  |                     |          |
| 20               | 16QAM      | 1       | 49        | 19.19                 | 19.26                    | 19.45                  |                     |          |
| 20               | 16QAM      | 1       | 99        | 19.32                 | 19.41                    | 19.29                  | 20.2                | 0        |
| 20               | 16QAM      | 50      | 0         | 19.01                 | 19.39                    | 19.20                  |                     |          |
| 20               | 16QAM      | 50      | 24        | 19.28                 | 19.05                    | 19.34                  |                     |          |
| 20               | 16QAM      | 50      | 50        | 19.20                 | 19.07                    | 19.26                  | 20.2                | 0        |
| 20               | 16QAM      | 100     | 0         | 18.94                 | 19.08                    | 18.94                  |                     |          |
| 20               | 64QAM      | 1       | 0         | 19.09                 | 19.46                    | 19.23                  | 20.2                | 0        |
| 20               | 64QAM      | 1       | 49        | 19.16                 | 19.24                    | 19.46                  |                     |          |
| 20               | 64QAM      | 1       | 99        | 19.33                 | 19.43                    | 19.24                  |                     |          |
| 20               | 64QAM      | 50      | 0         | 18.97                 | 19.40                    | 19.19                  | 20.2                | 0        |
| 20               | 64QAM      | 50      | 24        | 19.32                 | 19.08                    | 19.33                  |                     |          |
| 20               | 64QAM      | 50      | 50        | 19.19                 | 19.10                    | 19.22                  |                     |          |
| 20               | 64QAM      | 100     | 0         | 18.96                 | 19.14                    | 18.98                  | 20                  | 0.2      |
| 20               | 256QAM     | 1       | 0         | 18.77                 | 18.80                    | 18.80                  |                     |          |
| 20               | 256QAM     | 1       | 49        | 18.54                 | 18.57                    | 18.65                  |                     |          |
| 20               | 256QAM     | 1       | 99        | 18.45                 | 18.60                    | 18.66                  | 20                  | 0.2      |
| 20               | 256QAM     | 50      | 0         | 18.45                 | 18.54                    | 18.46                  |                     |          |
| 20               | 256QAM     | 50      | 24        | 18.55                 | 18.67                    | 18.64                  |                     |          |
| 20               | 256QAM     | 50      | 50        | 18.44                 | 18.35                    | 18.39                  | 20.2                | 0        |
| 20               | 256QAM     | 100     | 0         | 18.67                 | 18.63                    | 18.59                  |                     |          |
| Channel          |            |         |           | 18675                 | 18900                    | 19125                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |
| 15               | QPSK       | 1       | 0         | 19.09                 | 19.45                    | 19.21                  | 20.2                | 0        |
| 15               | QPSK       | 1       | 37        | 19.20                 | 19.25                    | 19.43                  |                     |          |
| 15               | QPSK       | 1       | 74        | 19.34                 | 19.39                    | 19.26                  |                     |          |
| 15               | QPSK       | 36      | 0         | 18.99                 | 19.39                    | 19.21                  | 20.2                | 0        |
| 15               | QPSK       | 36      | 20        | 19.28                 | 19.07                    | 19.29                  |                     |          |
| 15               | QPSK       | 36      | 39        | 19.21                 | 19.06                    | 19.21                  |                     |          |
| 15               | QPSK       | 75      | 0         | 18.97                 | 19.08                    | 18.94                  | 20.2                | 0        |
| 15               | 16QAM      | 1       | 0         | 19.03                 | 19.39                    | 19.13                  |                     |          |
| 15               | 16QAM      | 1       | 37        | 19.16                 | 19.20                    | 19.38                  |                     |          |
| 15               | 16QAM      | 1       | 74        | 19.27                 | 19.37                    | 19.23                  |                     |          |



|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 16QAM  | 36 | 0  | 18.95 | 19.34 | 19.13 | 20.2                   | 0           |
| 15              | 16QAM  | 36 | 20 | 19.18 | 18.99 | 19.29 |                        |             |
| 15              | 16QAM  | 36 | 39 | 19.12 | 19.02 | 19.22 |                        |             |
| 15              | 16QAM  | 75 | 0  | 18.87 | 19.03 | 18.91 |                        |             |
| 15              | 64QAM  | 1  | 0  | 19.04 | 19.37 | 19.20 | 20.2                   | 0           |
| 15              | 64QAM  | 1  | 37 | 19.14 | 19.18 | 19.42 |                        |             |
| 15              | 64QAM  | 1  | 74 | 19.30 | 19.35 | 19.16 |                        |             |
| 15              | 64QAM  | 36 | 0  | 18.92 | 19.32 | 19.17 | 20.2                   | 0           |
| 15              | 64QAM  | 36 | 20 | 19.26 | 19.05 | 19.28 |                        |             |
| 15              | 64QAM  | 36 | 39 | 19.11 | 19.03 | 19.13 |                        |             |
| 15              | 64QAM  | 75 | 0  | 18.86 | 19.10 | 18.90 |                        |             |
| 15              | 256QAM | 1  | 0  | 18.60 | 18.78 | 18.64 | 20                     | 0.2         |
| 15              | 256QAM | 1  | 37 | 18.51 | 18.42 | 18.51 |                        |             |
| 15              | 256QAM | 1  | 74 | 18.37 | 18.44 | 18.47 |                        |             |
| 15              | 256QAM | 36 | 0  | 18.36 | 18.51 | 18.29 | 20                     | 0.2         |
| 15              | 256QAM | 36 | 20 | 18.42 | 18.54 | 18.47 |                        |             |
| 15              | 256QAM | 36 | 39 | 18.29 | 18.34 | 18.25 |                        |             |
| 15              | 256QAM | 75 | 0  | 18.48 | 18.53 | 18.39 |                        |             |
| Channel         |        |    |    | 18650 | 18900 | 19150 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1855  | 1880  | 1905  |                        |             |
| 10              | QPSK   | 1  | 0  | 19.14 | 19.46 | 19.20 | 20.2                   | 0           |
| 10              | QPSK   | 1  | 25 | 19.15 | 19.21 | 19.45 |                        |             |
| 10              | QPSK   | 1  | 49 | 19.30 | 19.46 | 19.26 |                        |             |
| 10              | QPSK   | 25 | 0  | 18.95 | 19.46 | 19.23 | 20.2                   | 0           |
| 10              | QPSK   | 25 | 12 | 19.27 | 19.07 | 19.35 |                        |             |
| 10              | QPSK   | 25 | 25 | 19.15 | 19.06 | 19.20 |                        |             |
| 10              | QPSK   | 50 | 0  | 18.98 | 19.10 | 18.97 |                        |             |
| 10              | 16QAM  | 1  | 0  | 18.98 | 19.38 | 19.12 | 20.2                   | 0           |
| 10              | 16QAM  | 1  | 25 | 19.14 | 19.18 | 19.37 |                        |             |
| 10              | 16QAM  | 1  | 49 | 19.25 | 19.35 | 19.20 |                        |             |
| 10              | 16QAM  | 25 | 0  | 18.98 | 19.32 | 19.13 | 20.2                   | 0           |
| 10              | 16QAM  | 25 | 12 | 19.19 | 19.01 | 19.27 |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.17 | 19.01 | 19.24 |                        |             |
| 10              | 16QAM  | 50 | 0  | 18.86 | 19.01 | 18.88 |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.05 | 19.36 | 19.20 | 20.2                   | 0           |
| 10              | 64QAM  | 1  | 25 | 19.13 | 19.14 | 19.44 |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.24 | 19.39 | 19.19 |                        |             |
| 10              | 64QAM  | 25 | 0  | 18.89 | 19.36 | 19.10 | 20.2                   | 0           |
| 10              | 64QAM  | 25 | 12 | 19.23 | 19.01 | 19.26 |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.11 | 19.05 | 19.14 |                        |             |
| 10              | 64QAM  | 50 | 0  | 18.89 | 19.07 | 18.93 |                        |             |
| 10              | 256QAM | 1  | 0  | 18.57 | 18.71 | 18.70 | 20                     | 0.2         |
| 10              | 256QAM | 1  | 25 | 18.35 | 18.50 | 18.48 |                        |             |
| 10              | 256QAM | 1  | 49 | 18.31 | 18.49 | 18.64 |                        |             |
| 10              | 256QAM | 25 | 0  | 18.30 | 18.34 | 18.28 | 20                     | 0.2         |
| 10              | 256QAM | 25 | 12 | 18.50 | 18.59 | 18.53 |                        |             |
| 10              | 256QAM | 25 | 25 | 18.33 | 18.20 | 18.30 |                        |             |



|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 10              | 256QAM | 50 | 0  | 18.55  | 18.44 | 18.44  |                        |             |
| Channel         |        |    |    | 18625  | 18900 | 19175  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1852.5 | 1880  | 1907.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 19.13  | 19.48 | 19.20  | 20.2                   | 0           |
| 5               | QPSK   | 1  | 12 | 19.15  | 19.22 | 19.44  |                        |             |
| 5               | QPSK   | 1  | 24 | 19.34  | 19.45 | 19.24  |                        |             |
| 5               | QPSK   | 12 | 0  | 18.95  | 19.40 | 19.18  | 20.2                   | 0           |
| 5               | QPSK   | 12 | 7  | 19.25  | 19.11 | 19.29  |                        |             |
| 5               | QPSK   | 12 | 13 | 19.16  | 19.10 | 19.24  |                        |             |
| 5               | QPSK   | 25 | 0  | 18.96  | 19.06 | 18.99  | 20.2                   | 0           |
| 5               | 16QAM  | 1  | 0  | 18.99  | 19.37 | 19.12  |                        |             |
| 5               | 16QAM  | 1  | 12 | 19.12  | 19.24 | 19.41  |                        |             |
| 5               | 16QAM  | 1  | 24 | 19.29  | 19.35 | 19.21  | 20.2                   | 0           |
| 5               | 16QAM  | 12 | 0  | 18.91  | 19.31 | 19.15  |                        |             |
| 5               | 16QAM  | 12 | 7  | 19.22  | 18.97 | 19.25  |                        |             |
| 5               | 16QAM  | 12 | 13 | 19.11  | 19.01 | 19.23  | 20.2                   | 0           |
| 5               | 16QAM  | 25 | 0  | 18.85  | 19.03 | 18.85  |                        |             |
| 5               | 64QAM  | 1  | 0  | 19.03  | 19.36 | 19.14  |                        |             |
| 5               | 64QAM  | 1  | 12 | 19.07  | 19.21 | 19.41  | 20.2                   | 0           |
| 5               | 64QAM  | 1  | 24 | 19.29  | 19.37 | 19.17  |                        |             |
| 5               | 64QAM  | 12 | 0  | 18.92  | 19.34 | 19.14  |                        |             |
| 5               | 64QAM  | 12 | 7  | 19.29  | 19.01 | 19.31  | 20.2                   | 0           |
| 5               | 64QAM  | 12 | 13 | 19.17  | 19.07 | 19.18  |                        |             |
| 5               | 64QAM  | 25 | 0  | 18.94  | 19.05 | 18.93  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.59  | 18.75 | 18.60  | 20                     | 0.2         |
| 5               | 256QAM | 1  | 12 | 18.47  | 18.53 | 18.62  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.33  | 18.58 | 18.52  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.41  | 18.54 | 18.43  | 20                     | 0.2         |
| 5               | 256QAM | 12 | 7  | 18.49  | 18.57 | 18.55  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.38  | 18.27 | 18.28  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.53  | 18.50 | 18.53  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |    |    | 18615  | 18900 | 19185  |                        |             |
| Frequency (MHz) |        |    |    | 1851.5 | 1880  | 1908.5 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 3               | QPSK   | 1  | 0  | 19.11  | 19.45 | 19.18  |                        |             |
| 3               | QPSK   | 1  | 8  | 19.17  | 19.25 | 19.45  | 20.2                   | 0           |
| 3               | QPSK   | 1  | 14 | 19.31  | 19.39 | 19.23  |                        |             |
| 3               | QPSK   | 8  | 0  | 18.94  | 19.42 | 19.21  |                        |             |
| 3               | QPSK   | 8  | 4  | 19.31  | 19.10 | 19.30  | 20.2                   | 0           |
| 3               | QPSK   | 8  | 7  | 19.14  | 19.13 | 19.26  |                        |             |
| 3               | QPSK   | 15 | 0  | 18.99  | 19.12 | 18.97  |                        |             |
| 3               | 16QAM  | 1  | 0  | 18.98  | 19.33 | 19.13  | 20.2                   | 0           |
| 3               | 16QAM  | 1  | 8  | 19.13  | 19.18 | 19.40  |                        |             |
| 3               | 16QAM  | 1  | 14 | 19.23  | 19.34 | 19.24  |                        |             |
| 3               | 16QAM  | 8  | 0  | 18.94  | 19.34 | 19.13  | 20.2                   | 0           |
| 3               | 16QAM  | 8  | 4  | 19.25  | 19.02 | 19.25  |                        |             |
| 3               | 16QAM  | 8  | 7  | 19.11  | 19.00 | 19.18  |                        |             |
| 3               | 16QAM  | 15 | 0  | 18.84  | 19.00 | 18.90  |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 3               | 64QAM  | 1  | 0  | 19.01  | 19.43 | 19.19  | 20.2                   | 0           |
| 3               | 64QAM  | 1  | 8  | 19.13  | 19.21 | 19.42  |                        |             |
| 3               | 64QAM  | 1  | 14 | 19.26  | 19.38 | 19.19  |                        |             |
| 3               | 64QAM  | 8  | 0  | 18.89  | 19.30 | 19.14  | 20.2                   | 0           |
| 3               | 64QAM  | 8  | 4  | 19.24  | 19.01 | 19.27  |                        |             |
| 3               | 64QAM  | 8  | 7  | 19.11  | 19.05 | 19.18  |                        |             |
| 3               | 64QAM  | 15 | 0  | 18.93  | 19.09 | 18.89  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.69  | 18.65 | 18.74  | 20                     | 0.2         |
| 3               | 256QAM | 1  | 8  | 18.43  | 18.39 | 18.45  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.36  | 18.53 | 18.63  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.36  | 18.38 | 18.34  | 20                     | 0.2         |
| 3               | 256QAM | 8  | 4  | 18.36  | 18.54 | 18.50  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.38  | 18.28 | 18.24  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.52  | 18.61 | 18.39  |                        |             |
| Channel         |        |    |    | 18607  | 18900 | 19193  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1850.7 | 1880  | 1909.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 19.13  | 19.43 | 19.19  | 20.2                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 19.16  | 19.26 | 19.46  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 19.31  | 19.41 | 19.27  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 18.95  | 19.43 | 19.20  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 19.32  | 19.05 | 19.30  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 19.19  | 19.08 | 19.21  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 18.95  | 19.13 | 18.95  | 20.2                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 19.01  | 19.36 | 19.10  | 20.2                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 19.10  | 19.18 | 19.36  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 19.23  | 19.39 | 19.21  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 18.96  | 19.29 | 19.12  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 19.26  | 18.99 | 19.30  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 19.17  | 19.05 | 19.20  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 18.90  | 19.03 | 18.90  | 20.2                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 19.05  | 19.37 | 19.14  | 20.2                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 19.13  | 19.21 | 19.40  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 19.27  | 19.41 | 19.21  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 18.91  | 19.33 | 19.11  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 19.22  | 18.99 | 19.25  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 19.13  | 19.04 | 19.16  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 18.92  | 19.06 | 18.91  | 20.2                   | 0           |
| 1.4             | 256QAM | 1  | 0  | 18.77  | 18.68 | 18.63  | 20                     | 0.2         |
| 1.4             | 256QAM | 1  | 3  | 18.41  | 18.52 | 18.53  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.36  | 18.49 | 18.62  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.42  | 18.40 | 18.30  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.44  | 18.54 | 18.57  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.37  | 18.24 | 18.25  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.65  | 18.48 | 18.56  | 20                     | 0.2         |

Band 4 Ant2 DSI4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 20050                    | 20175                       | 20300                     |                        |             |
| Frequency (MHz) |            |         |           | 1720                     | 1732.5                      | 1745                      |                        |             |
| 20              | QPSK       | 1       | 0         | 19.81                    | 20.03                       | 19.76                     | 20.6                   | 0           |
| 20              | QPSK       | 1       | 49        | 19.98                    | 19.95                       | 20.00                     |                        |             |
| 20              | QPSK       | 1       | 99        | 19.80                    | 19.77                       | 19.78                     |                        |             |
| 20              | QPSK       | 50      | 0         | 19.55                    | 20.01                       | 19.69                     | 20.6                   | 0           |
| 20              | QPSK       | 50      | 24        | 19.78                    | 19.76                       | 19.87                     |                        |             |
| 20              | QPSK       | 50      | 50        | 19.77                    | 19.66                       | 19.87                     |                        |             |
| 20              | QPSK       | 100     | 0         | 19.56                    | 19.95                       | 19.40                     | 20.6                   | 0           |
| 20              | 16QAM      | 1       | 0         | 19.59                    | 19.68                       | 19.64                     |                        |             |
| 20              | 16QAM      | 1       | 49        | 19.88                    | 19.63                       | 19.47                     |                        |             |
| 20              | 16QAM      | 1       | 99        | 19.53                    | 19.46                       | 19.61                     | 20.6                   | 0           |
| 20              | 16QAM      | 50      | 0         | 19.70                    | 19.50                       | 19.62                     |                        |             |
| 20              | 16QAM      | 50      | 24        | 19.40                    | 19.46                       | 19.44                     |                        |             |
| 20              | 16QAM      | 50      | 50        | 19.56                    | 19.68                       | 19.74                     | 20.6                   | 0           |
| 20              | 16QAM      | 100     | 0         | 19.40                    | 19.61                       | 19.46                     |                        |             |
| 20              | 64QAM      | 1       | 0         | 19.64                    | 19.68                       | 19.48                     |                        |             |
| 20              | 64QAM      | 1       | 49        | 19.59                    | 19.50                       | 19.73                     | 20.6                   | 0           |
| 20              | 64QAM      | 1       | 99        | 19.56                    | 19.53                       | 19.59                     |                        |             |
| 20              | 64QAM      | 50      | 0         | 19.72                    | 19.97                       | 19.71                     |                        |             |
| 20              | 64QAM      | 50      | 24        | 19.94                    | 19.89                       | 19.94                     | 20.6                   | 0           |
| 20              | 64QAM      | 50      | 50        | 19.76                    | 19.71                       | 19.68                     |                        |             |
| 20              | 64QAM      | 100     | 0         | 19.50                    | 19.98                       | 19.59                     |                        |             |
| 20              | 256QAM     | 1       | 0         | 18.48                    | 18.46                       | 18.35                     | 20                     | 0.6         |
| 20              | 256QAM     | 1       | 49        | 18.66                    | 18.43                       | 18.54                     |                        |             |
| 20              | 256QAM     | 1       | 99        | 18.45                    | 18.44                       | 18.27                     |                        |             |
| 20              | 256QAM     | 50      | 0         | 18.49                    | 18.52                       | 18.31                     | 20                     | 0.6         |
| 20              | 256QAM     | 50      | 24        | 18.45                    | 18.59                       | 18.51                     |                        |             |
| 20              | 256QAM     | 50      | 50        | 18.49                    | 18.56                       | 18.47                     |                        |             |
| 20              | 256QAM     | 100     | 0         | 18.46                    | 18.56                       | 18.46                     |                        |             |
| Channel         |            |         |           | 20025                    | 20175                       | 20325                     |                        |             |
| Frequency (MHz) |            |         |           | 1717.5                   | 1732.5                      | 1747.5                    |                        |             |
| 15              | QPSK       | 1       | 0         | 19.72                    | 19.94                       | 19.73                     |                        |             |
| 15              | QPSK       | 1       | 37        | 19.92                    | 19.91                       | 19.90                     | 20.6                   | 0           |
| 15              | QPSK       | 1       | 74        | 19.77                    | 19.72                       | 19.70                     |                        |             |
| 15              | QPSK       | 36      | 0         | 19.48                    | 19.98                       | 19.61                     |                        |             |
| 15              | QPSK       | 36      | 20        | 19.70                    | 19.67                       | 19.77                     | 20.6                   | 0           |
| 15              | QPSK       | 36      | 39        | 19.71                    | 19.56                       | 19.83                     |                        |             |
| 15              | QPSK       | 75      | 0         | 19.50                    | 19.86                       | 19.30                     |                        |             |
| 15              | 16QAM      | 1       | 0         | 19.54                    | 19.59                       | 19.59                     | 20.6                   | 0           |
| 15              | 16QAM      | 1       | 37        | 19.80                    | 19.60                       | 19.42                     |                        |             |
| 15              | 16QAM      | 1       | 74        | 19.44                    | 19.39                       | 19.57                     |                        |             |
| 15              | 16QAM      | 36      | 0         | 19.64                    | 19.46                       | 19.56                     | 20.6                   | 0           |
| 15              | 16QAM      | 36      | 20        | 19.34                    | 19.40                       | 19.39                     |                        |             |
| 15              | 16QAM      | 36      | 39        | 19.50                    | 19.60                       | 19.65                     |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 16QAM  | 75 | 0  | 19.33  | 19.56  | 19.43  |                        |             |
| 15              | 64QAM  | 1  | 0  | 19.61  | 19.65  | 19.44  | 20.6                   | 0           |
| 15              | 64QAM  | 1  | 37 | 19.53  | 19.47  | 19.67  |                        |             |
| 15              | 64QAM  | 1  | 74 | 19.49  | 19.51  | 19.57  |                        |             |
| 15              | 64QAM  | 36 | 0  | 19.68  | 19.91  | 19.63  | 20.6                   | 0           |
| 15              | 64QAM  | 36 | 20 | 19.87  | 19.80  | 19.92  |                        |             |
| 15              | 64QAM  | 36 | 39 | 19.74  | 19.65  | 19.63  |                        |             |
| 15              | 64QAM  | 75 | 0  | 19.43  | 19.89  | 19.53  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.34  | 18.38  | 18.20  | 20                     | 0.6         |
| 15              | 256QAM | 1  | 37 | 18.58  | 18.40  | 18.42  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.29  | 18.32  | 18.26  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.36  | 18.48  | 18.27  | 20                     | 0.6         |
| 15              | 256QAM | 36 | 20 | 18.31  | 18.58  | 18.43  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.42  | 18.37  | 18.32  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.35  | 18.54  | 18.45  |                        |             |
| Channel         |        |    |    | 20000  | 20175  | 20350  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1715   | 1732.5 | 1750   |                        |             |
| 10              | QPSK   | 1  | 0  | 19.78  | 19.99  | 19.72  | 20.6                   | 0           |
| 10              | QPSK   | 1  | 25 | 19.94  | 19.88  | 19.93  |                        |             |
| 10              | QPSK   | 1  | 49 | 19.74  | 19.74  | 19.76  |                        |             |
| 10              | QPSK   | 25 | 0  | 19.46  | 19.96  | 19.66  | 20.6                   | 0           |
| 10              | QPSK   | 25 | 12 | 19.75  | 19.68  | 19.78  |                        |             |
| 10              | QPSK   | 25 | 25 | 19.67  | 19.60  | 19.83  |                        |             |
| 10              | QPSK   | 50 | 0  | 19.50  | 19.91  | 19.31  |                        |             |
| 10              | 16QAM  | 1  | 0  | 19.56  | 19.66  | 19.61  | 20.6                   | 0           |
| 10              | 16QAM  | 1  | 25 | 19.80  | 19.55  | 19.38  |                        |             |
| 10              | 16QAM  | 1  | 49 | 19.47  | 19.43  | 19.55  |                        |             |
| 10              | 16QAM  | 25 | 0  | 19.67  | 19.42  | 19.59  | 20.6                   | 0           |
| 10              | 16QAM  | 25 | 12 | 19.33  | 19.40  | 19.39  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.49  | 19.61  | 19.68  |                        |             |
| 10              | 16QAM  | 50 | 0  | 19.33  | 19.57  | 19.43  |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.60  | 19.58  | 19.43  | 20.6                   | 0           |
| 10              | 64QAM  | 1  | 25 | 19.52  | 19.44  | 19.65  |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.47  | 19.48  | 19.51  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.67  | 19.91  | 19.69  | 20.6                   | 0           |
| 10              | 64QAM  | 25 | 12 | 19.85  | 19.87  | 19.85  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.70  | 19.62  | 19.61  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.41  | 19.90  | 19.56  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.42  | 18.34  | 18.33  | 20                     | 0.6         |
| 10              | 256QAM | 1  | 25 | 18.50  | 18.25  | 18.38  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.34  | 18.27  | 18.21  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.31  | 18.41  | 18.29  | 20                     | 0.6         |
| 10              | 256QAM | 25 | 12 | 18.28  | 18.57  | 18.49  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.38  | 18.47  | 18.47  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.44  | 18.43  | 18.28  |                        |             |
| Channel         |        |    |    | 19975  | 20175  | 20375  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1712.5 | 1732.5 | 1752.5 |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 5               | QPSK   | 1  | 0  | 19.75  | 19.97  | 19.70  | 20.6                   | 0           |
| 5               | QPSK   | 1  | 12 | 19.90  | 19.89  | 19.95  |                        |             |
| 5               | QPSK   | 1  | 24 | 19.76  | 19.70  | 19.76  |                        |             |
| 5               | QPSK   | 12 | 0  | 19.49  | 19.99  | 19.65  | 20.6                   | 0           |
| 5               | QPSK   | 12 | 7  | 19.68  | 19.69  | 19.78  |                        |             |
| 5               | QPSK   | 12 | 13 | 19.68  | 19.58  | 19.84  |                        |             |
| 5               | QPSK   | 25 | 0  | 19.50  | 19.87  | 19.37  |                        |             |
| 5               | 16QAM  | 1  | 0  | 19.51  | 19.58  | 19.57  | 20.6                   | 0           |
| 5               | 16QAM  | 1  | 12 | 19.80  | 19.60  | 19.41  |                        |             |
| 5               | 16QAM  | 1  | 24 | 19.46  | 19.36  | 19.55  |                        |             |
| 5               | 16QAM  | 12 | 0  | 19.62  | 19.45  | 19.55  | 20.6                   | 0           |
| 5               | 16QAM  | 12 | 7  | 19.32  | 19.44  | 19.35  |                        |             |
| 5               | 16QAM  | 12 | 13 | 19.47  | 19.65  | 19.69  |                        |             |
| 5               | 16QAM  | 25 | 0  | 19.31  | 19.53  | 19.39  |                        |             |
| 5               | 64QAM  | 1  | 0  | 19.60  | 19.64  | 19.40  | 20.6                   | 0           |
| 5               | 64QAM  | 1  | 12 | 19.56  | 19.44  | 19.63  |                        |             |
| 5               | 64QAM  | 1  | 24 | 19.53  | 19.43  | 19.50  |                        |             |
| 5               | 64QAM  | 12 | 0  | 19.66  | 19.91  | 19.63  | 20.6                   | 0           |
| 5               | 64QAM  | 12 | 7  | 19.87  | 19.82  | 19.91  |                        |             |
| 5               | 64QAM  | 12 | 13 | 19.66  | 19.66  | 19.64  |                        |             |
| 5               | 64QAM  | 25 | 0  | 19.41  | 19.91  | 19.50  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.37  | 18.34  | 18.19  | 20                     | 0.6         |
| 5               | 256QAM | 1  | 12 | 18.57  | 18.31  | 18.39  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.40  | 18.32  | 18.09  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.44  | 18.39  | 18.17  | 20                     | 0.6         |
| 5               | 256QAM | 12 | 7  | 18.33  | 18.51  | 18.48  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.44  | 18.44  | 18.46  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.29  | 18.56  | 18.44  |                        |             |
| Channel         |        |    |    | 19965  | 20175  | 20385  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1711.5 | 1732.5 | 1753.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 19.71  | 20.00  | 19.68  | 20.6                   | 0           |
| 3               | QPSK   | 1  | 8  | 19.90  | 19.88  | 19.93  |                        |             |
| 3               | QPSK   | 1  | 14 | 19.73  | 19.74  | 19.71  |                        |             |
| 3               | QPSK   | 8  | 0  | 19.51  | 19.93  | 19.62  | 20.6                   | 0           |
| 3               | QPSK   | 8  | 4  | 19.69  | 19.67  | 19.80  |                        |             |
| 3               | QPSK   | 8  | 7  | 19.70  | 19.59  | 19.77  |                        |             |
| 3               | QPSK   | 15 | 0  | 19.52  | 19.85  | 19.34  |                        |             |
| 3               | 16QAM  | 1  | 0  | 19.52  | 19.63  | 19.56  | 20.6                   | 0           |
| 3               | 16QAM  | 1  | 8  | 19.82  | 19.53  | 19.44  |                        |             |
| 3               | 16QAM  | 1  | 14 | 19.43  | 19.38  | 19.56  |                        |             |
| 3               | 16QAM  | 8  | 0  | 19.61  | 19.43  | 19.58  | 20.6                   | 0           |
| 3               | 16QAM  | 8  | 4  | 19.32  | 19.38  | 19.41  |                        |             |
| 3               | 16QAM  | 8  | 7  | 19.48  | 19.63  | 19.65  |                        |             |
| 3               | 16QAM  | 15 | 0  | 19.34  | 19.58  | 19.44  |                        |             |
| 3               | 64QAM  | 1  | 0  | 19.58  | 19.62  | 19.43  | 20.6                   | 0           |
| 3               | 64QAM  | 1  | 8  | 19.57  | 19.46  | 19.65  |                        |             |
| 3               | 64QAM  | 1  | 14 | 19.50  | 19.44  | 19.51  |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 3               | 64QAM  | 8  | 0  | 19.66  | 19.94  | 19.65  | 20.6                   | 0           |
| 3               | 64QAM  | 8  | 4  | 19.88  | 19.82  | 19.91  |                        |             |
| 3               | 64QAM  | 8  | 7  | 19.70  | 19.68  | 19.65  |                        |             |
| 3               | 64QAM  | 15 | 0  | 19.45  | 19.95  | 19.51  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.34  | 18.31  | 18.22  | 20                     | 0.6         |
| 3               | 256QAM | 1  | 8  | 18.49  | 18.42  | 18.48  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.37  | 18.38  | 18.17  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.34  | 18.38  | 18.29  | 20                     | 0.6         |
| 3               | 256QAM | 8  | 4  | 18.34  | 18.40  | 18.33  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.44  | 18.55  | 18.27  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.29  | 18.53  | 18.36  |                        |             |
| Channel         |        |    |    | 19957  | 20175  | 20393  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1710.7 | 1732.5 | 1754.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 19.75  | 19.97  | 19.72  | 20.6                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 19.91  | 19.86  | 19.95  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 19.78  | 19.74  | 19.71  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 19.46  | 19.95  | 19.59  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 19.71  | 19.70  | 19.79  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 19.75  | 19.59  | 19.80  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 19.46  | 19.89  | 19.31  | 20.6                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 19.49  | 19.59  | 19.60  | 20.6                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 19.79  | 19.60  | 19.41  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 19.46  | 19.38  | 19.51  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 19.65  | 19.46  | 19.58  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 19.37  | 19.44  | 19.41  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 19.47  | 19.63  | 19.70  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 19.34  | 19.57  | 19.41  | 20.6                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 19.57  | 19.64  | 19.44  | 20.6                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 19.55  | 19.44  | 19.69  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 19.52  | 19.44  | 19.54  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 19.66  | 19.92  | 19.63  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 19.86  | 19.80  | 19.86  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 19.73  | 19.62  | 19.66  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 19.44  | 19.88  | 19.54  | 20.6                   | 0           |
| 1.4             | 256QAM | 1  | 0  | 18.44  | 18.48  | 18.49  | 20                     | 0.6         |
| 1.4             | 256QAM | 1  | 3  | 18.68  | 18.41  | 18.46  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.49  | 18.49  | 18.45  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.48  | 18.44  | 18.43  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.45  | 18.68  | 18.51  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.55  | 18.48  | 18.50  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.47  | 18.51  | 18.58  | 20                     | 0.6         |

| Band 25 Ant2 DSI4 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 26140                    | 26340                       | 26590                     |                        |             |
| Frequency (MHz)   |            |         |           | 1860                     | 1880                        | 1905                      |                        |             |

|                 |        |     |    |        |       |        |                        |             |
|-----------------|--------|-----|----|--------|-------|--------|------------------------|-------------|
| 20              | QPSK   | 1   | 0  | 19.34  | 19.56 | 19.41  | 20.2                   | 0           |
| 20              | QPSK   | 1   | 49 | 19.41  | 19.40 | 19.54  |                        |             |
| 20              | QPSK   | 1   | 99 | 19.51  | 19.51 | 19.45  |                        |             |
| 20              | QPSK   | 50  | 0  | 19.22  | 19.51 | 19.35  | 20.2                   | 0           |
| 20              | QPSK   | 50  | 24 | 19.35  | 19.20 | 19.40  |                        |             |
| 20              | QPSK   | 50  | 50 | 19.40  | 19.24 | 19.36  |                        |             |
| 20              | QPSK   | 100 | 0  | 19.17  | 19.27 | 19.01  |                        |             |
| 20              | 16QAM  | 1   | 0  | 19.31  | 19.51 | 19.35  | 20.2                   | 0           |
| 20              | 16QAM  | 1   | 49 | 19.34  | 19.37 | 19.50  |                        |             |
| 20              | 16QAM  | 1   | 99 | 19.45  | 19.46 | 19.42  |                        |             |
| 20              | 16QAM  | 50  | 0  | 19.18  | 19.46 | 19.30  | 20.2                   | 0           |
| 20              | 16QAM  | 50  | 24 | 19.28  | 19.14 | 19.34  |                        |             |
| 20              | 16QAM  | 50  | 50 | 19.37  | 19.19 | 19.33  |                        |             |
| 20              | 16QAM  | 100 | 0  | 19.12  | 19.22 | 18.99  |                        |             |
| 20              | 64QAM  | 1   | 0  | 19.27  | 19.46 | 19.33  | 20.2                   | 0           |
| 20              | 64QAM  | 1   | 49 | 19.33  | 19.33 | 19.52  |                        |             |
| 20              | 64QAM  | 1   | 99 | 19.44  | 19.44 | 19.36  |                        |             |
| 20              | 64QAM  | 50  | 0  | 19.12  | 19.45 | 19.25  | 20.2                   | 0           |
| 20              | 64QAM  | 50  | 24 | 19.31  | 19.11 | 19.32  |                        |             |
| 20              | 64QAM  | 50  | 50 | 19.30  | 19.16 | 19.31  |                        |             |
| 20              | 64QAM  | 100 | 0  | 19.15  | 19.21 | 18.96  |                        |             |
| 20              | 256QAM | 1   | 0  | 18.79  | 18.87 | 18.82  | 20                     | 0.2         |
| 20              | 256QAM | 1   | 49 | 18.71  | 18.74 | 18.78  |                        |             |
| 20              | 256QAM | 1   | 99 | 18.61  | 18.68 | 18.77  |                        |             |
| 20              | 256QAM | 50  | 0  | 18.64  | 18.63 | 18.61  | 20                     | 0.2         |
| 20              | 256QAM | 50  | 24 | 18.60  | 18.67 | 18.76  |                        |             |
| 20              | 256QAM | 50  | 50 | 18.56  | 18.53 | 18.43  |                        |             |
| 20              | 256QAM | 100 | 0  | 18.70  | 18.70 | 18.79  |                        |             |
| Channel         |        |     |    | 26115  | 26340 | 26615  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 1857.5 | 1880  | 1907.5 |                        |             |
| 15              | QPSK   | 1   | 0  | 19.29  | 19.51 | 19.35  | 20.2                   | 0           |
| 15              | QPSK   | 1   | 37 | 19.32  | 19.34 | 19.46  |                        |             |
| 15              | QPSK   | 1   | 74 | 19.42  | 19.47 | 19.38  |                        |             |
| 15              | QPSK   | 36  | 0  | 19.16  | 19.46 | 19.33  | 20.2                   | 0           |
| 15              | QPSK   | 36  | 20 | 19.30  | 19.16 | 19.31  |                        |             |
| 15              | QPSK   | 36  | 39 | 19.30  | 19.17 | 19.31  |                        |             |
| 15              | QPSK   | 75  | 0  | 19.09  | 19.22 | 18.94  |                        |             |
| 15              | 16QAM  | 1   | 0  | 19.27  | 19.44 | 19.33  | 20.2                   | 0           |
| 15              | 16QAM  | 1   | 37 | 19.31  | 19.29 | 19.41  |                        |             |
| 15              | 16QAM  | 1   | 74 | 19.40  | 19.43 | 19.35  |                        |             |
| 15              | 16QAM  | 36  | 0  | 19.13  | 19.39 | 19.27  | 20.2                   | 0           |
| 15              | 16QAM  | 36  | 20 | 19.19  | 19.11 | 19.31  |                        |             |
| 15              | 16QAM  | 36  | 39 | 19.29  | 19.09 | 19.26  |                        |             |
| 15              | 16QAM  | 75  | 0  | 19.07  | 19.15 | 18.91  |                        |             |
| 15              | 64QAM  | 1   | 0  | 19.23  | 19.43 | 19.25  | 20.2                   | 0           |
| 15              | 64QAM  | 1   | 37 | 19.25  | 19.31 | 19.48  |                        |             |
| 15              | 64QAM  | 1   | 74 | 19.34  | 19.34 | 19.27  |                        |             |



|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 64QAM  | 36 | 0  | 19.05  | 19.42 | 19.17  | 20.2                   | 0           |
| 15              | 64QAM  | 36 | 20 | 19.28  | 19.02 | 19.24  |                        |             |
| 15              | 64QAM  | 36 | 39 | 19.21  | 19.13 | 19.28  |                        |             |
| 15              | 64QAM  | 75 | 0  | 19.06  | 19.11 | 18.88  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.68  | 18.77 | 18.73  | 20                     | 0.2         |
| 15              | 256QAM | 1  | 37 | 18.64  | 18.56 | 18.60  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.55  | 18.67 | 18.71  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.45  | 18.57 | 18.56  | 20                     | 0.2         |
| 15              | 256QAM | 36 | 20 | 18.55  | 18.47 | 18.59  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.40  | 18.41 | 18.28  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.53  | 18.69 | 18.64  |                        |             |
| Channel         |        |    |    | 26090  | 26340 | 26640  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1855   | 1880  | 1910   |                        |             |
| 10              | QPSK   | 1  | 0  | 19.26  | 19.49 | 19.37  | 20.2                   | 0           |
| 10              | QPSK   | 1  | 25 | 19.36  | 19.33 | 19.50  |                        |             |
| 10              | QPSK   | 1  | 49 | 19.48  | 19.45 | 19.42  |                        |             |
| 10              | QPSK   | 25 | 0  | 19.17  | 19.48 | 19.32  | 20.2                   | 0           |
| 10              | QPSK   | 25 | 12 | 19.28  | 19.11 | 19.34  |                        |             |
| 10              | QPSK   | 25 | 25 | 19.31  | 19.15 | 19.31  |                        |             |
| 10              | QPSK   | 50 | 0  | 19.15  | 19.23 | 18.95  |                        |             |
| 10              | 16QAM  | 1  | 0  | 19.22  | 19.41 | 19.28  | 20.2                   | 0           |
| 10              | 16QAM  | 1  | 25 | 19.26  | 19.28 | 19.42  |                        |             |
| 10              | 16QAM  | 1  | 49 | 19.39  | 19.44 | 19.39  |                        |             |
| 10              | 16QAM  | 25 | 0  | 19.14  | 19.43 | 19.21  | 20.2                   | 0           |
| 10              | 16QAM  | 25 | 12 | 19.22  | 19.06 | 19.31  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.32  | 19.16 | 19.29  |                        |             |
| 10              | 16QAM  | 50 | 0  | 19.09  | 19.12 | 18.95  |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.18  | 19.38 | 19.28  | 20.2                   | 0           |
| 10              | 64QAM  | 1  | 25 | 19.29  | 19.26 | 19.49  |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.41  | 19.38 | 19.34  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.08  | 19.38 | 19.21  | 20.2                   | 0           |
| 10              | 64QAM  | 25 | 12 | 19.25  | 19.04 | 19.24  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.25  | 19.13 | 19.26  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.10  | 19.17 | 18.90  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.60  | 18.76 | 18.67  | 20                     | 0.2         |
| 10              | 256QAM | 1  | 25 | 18.54  | 18.64 | 18.59  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.56  | 18.55 | 18.60  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.48  | 18.58 | 18.60  | 20                     | 0.2         |
| 10              | 256QAM | 25 | 12 | 18.51  | 18.58 | 18.73  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.54  | 18.42 | 18.41  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.60  | 18.56 | 18.74  |                        |             |
| Channel         |        |    |    | 26065  | 26340 | 26665  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1852.5 | 1880  | 1912.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 19.32  | 19.48 | 19.35  | 20.2                   | 0           |
| 5               | QPSK   | 1  | 12 | 19.37  | 19.33 | 19.48  |                        |             |
| 5               | QPSK   | 1  | 24 | 19.41  | 19.47 | 19.39  |                        |             |
| 5               | QPSK   | 12 | 0  | 19.15  | 19.42 | 19.27  | 20.2                   | 0           |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 5               | QPSK   | 12 | 7  | 19.33  | 19.11 | 19.35  |                        |             |
| 5               | QPSK   | 12 | 13 | 19.33  | 19.16 | 19.33  |                        |             |
| 5               | QPSK   | 25 | 0  | 19.13  | 19.23 | 18.98  |                        |             |
| 5               | 16QAM  | 1  | 0  | 19.22  | 19.47 | 19.31  | 20.2                   | 0           |
| 5               | 16QAM  | 1  | 12 | 19.32  | 19.28 | 19.42  |                        |             |
| 5               | 16QAM  | 1  | 24 | 19.38  | 19.40 | 19.40  |                        |             |
| 5               | 16QAM  | 12 | 0  | 19.13  | 19.39 | 19.22  | 20.2                   | 0           |
| 5               | 16QAM  | 12 | 7  | 19.25  | 19.10 | 19.29  |                        |             |
| 5               | 16QAM  | 12 | 13 | 19.30  | 19.09 | 19.30  |                        |             |
| 5               | 16QAM  | 25 | 0  | 19.03  | 19.17 | 18.91  |                        |             |
| 5               | 64QAM  | 1  | 0  | 19.22  | 19.41 | 19.27  | 20.2                   | 0           |
| 5               | 64QAM  | 1  | 12 | 19.30  | 19.24 | 19.48  |                        |             |
| 5               | 64QAM  | 1  | 24 | 19.36  | 19.37 | 19.32  |                        |             |
| 5               | 64QAM  | 12 | 0  | 19.02  | 19.36 | 19.21  | 20.2                   | 0           |
| 5               | 64QAM  | 12 | 7  | 19.26  | 19.05 | 19.30  |                        |             |
| 5               | 64QAM  | 12 | 13 | 19.21  | 19.07 | 19.25  |                        |             |
| 5               | 64QAM  | 25 | 0  | 19.10  | 19.12 | 18.91  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.59  | 18.79 | 18.75  | 20                     | 0.2         |
| 5               | 256QAM | 1  | 12 | 18.53  | 18.69 | 18.71  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.58  | 18.58 | 18.66  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.54  | 18.50 | 18.41  | 20                     | 0.2         |
| 5               | 256QAM | 12 | 7  | 18.43  | 18.61 | 18.70  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.50  | 18.52 | 18.33  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.65  | 18.67 | 18.73  |                        |             |
| Channel         |        |    |    | 26055  | 26340 | 26675  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1851.5 | 1880  | 1913.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 19.30  | 19.48 | 19.32  | 20.2                   | 0           |
| 3               | QPSK   | 1  | 8  | 19.36  | 19.32 | 19.45  |                        |             |
| 3               | QPSK   | 1  | 14 | 19.42  | 19.49 | 19.40  |                        |             |
| 3               | QPSK   | 8  | 0  | 19.16  | 19.46 | 19.28  | 20.2                   | 0           |
| 3               | QPSK   | 8  | 4  | 19.28  | 19.16 | 19.32  |                        |             |
| 3               | QPSK   | 8  | 7  | 19.35  | 19.19 | 19.26  |                        |             |
| 3               | QPSK   | 15 | 0  | 19.12  | 19.23 | 18.91  |                        |             |
| 3               | 16QAM  | 1  | 0  | 19.23  | 19.46 | 19.30  | 20.2                   | 0           |
| 3               | 16QAM  | 1  | 8  | 19.28  | 19.31 | 19.46  |                        |             |
| 3               | 16QAM  | 1  | 14 | 19.40  | 19.43 | 19.36  |                        |             |
| 3               | 16QAM  | 8  | 0  | 19.12  | 19.41 | 19.24  | 20.2                   | 0           |
| 3               | 16QAM  | 8  | 4  | 19.22  | 19.07 | 19.27  |                        |             |
| 3               | 16QAM  | 8  | 7  | 19.30  | 19.16 | 19.25  |                        |             |
| 3               | 16QAM  | 15 | 0  | 19.09  | 19.19 | 18.90  |                        |             |
| 3               | 64QAM  | 1  | 0  | 19.18  | 19.39 | 19.27  | 20.2                   | 0           |
| 3               | 64QAM  | 1  | 8  | 19.28  | 19.26 | 19.47  |                        |             |
| 3               | 64QAM  | 1  | 14 | 19.40  | 19.40 | 19.33  |                        |             |
| 3               | 64QAM  | 8  | 0  | 19.03  | 19.38 | 19.23  | 20.2                   | 0           |
| 3               | 64QAM  | 8  | 4  | 19.27  | 19.08 | 19.23  |                        |             |
| 3               | 64QAM  | 8  | 7  | 19.26  | 19.12 | 19.28  |                        |             |
| 3               | 64QAM  | 15 | 0  | 19.09  | 19.11 | 18.91  |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 3               | 256QAM | 1  | 0  | 18.60  | 18.77 | 18.77  | 20                     | 0.2         |
| 3               | 256QAM | 1  | 8  | 18.60  | 18.59 | 18.69  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.56  | 18.51 | 18.58  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.55  | 18.53 | 18.54  | 20                     | 0.2         |
| 3               | 256QAM | 8  | 4  | 18.40  | 18.56 | 18.65  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.41  | 18.40 | 18.35  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.63  | 18.50 | 18.77  |                        |             |
| Channel         |        |    |    | 26047  | 26340 | 26683  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1850.7 | 1880  | 1914.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 19.27  | 19.54 | 19.32  | 20.2                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 19.33  | 19.36 | 19.51  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 19.45  | 19.43 | 19.38  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 19.17  | 19.43 | 19.30  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 19.32  | 19.17 | 19.33  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 19.32  | 19.21 | 19.30  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 19.12  | 19.19 | 18.93  | 20.2                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 19.26  | 19.49 | 19.26  | 20.2                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 19.29  | 19.34 | 19.42  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 19.38  | 19.42 | 19.35  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 19.09  | 19.41 | 19.24  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 19.26  | 19.11 | 19.26  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 19.35  | 19.13 | 19.25  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 19.06  | 19.12 | 18.90  | 20.2                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 19.22  | 19.43 | 19.29  | 20.2                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 19.24  | 19.31 | 19.45  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 19.35  | 19.39 | 19.27  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 19.02  | 19.43 | 19.15  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 19.27  | 19.07 | 19.23  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 19.27  | 19.13 | 19.25  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 19.11  | 19.18 | 18.90  | 20.2                   | 0           |
| 1.4             | 256QAM | 1  | 0  | 18.73  | 18.77 | 18.65  | 20                     | 0.2         |
| 1.4             | 256QAM | 1  | 3  | 18.51  | 18.54 | 18.63  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.46  | 18.54 | 18.75  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.63  | 18.59 | 18.42  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.45  | 18.50 | 18.70  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.48  | 18.37 | 18.38  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.70  | 18.64 | 18.67  | 20                     | 0.2         |

| Band 66 Ant2 DSI4 |            |         |           |                             |                                |                              |                        |             |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 132072                      | 132322                         | 132572                       |                        |             |
| Frequency (MHz)   |            |         |           | 1720                        | 1745                           | 1770                         |                        |             |
| 20                | QPSK       | 1       | 0         | 19.88                       | 20.09                          | 19.82                        | 20.6                   | 0           |
| 20                | QPSK       | 1       | 49        | 20.00                       | 20.04                          | 20.02                        |                        |             |
| 20                | QPSK       | 1       | 99        | 19.97                       | 19.90                          | 19.95                        |                        |             |
| 20                | QPSK       | 50      | 0         | 19.68                       | 20.01                          | 19.83                        | 20.6                   | 0           |

|                 |        |     |    |        |        |        |                        |             |
|-----------------|--------|-----|----|--------|--------|--------|------------------------|-------------|
| 20              | QPSK   | 50  | 24 | 19.85  | 19.92  | 19.92  |                        |             |
| 20              | QPSK   | 50  | 50 | 19.87  | 19.83  | 19.88  |                        |             |
| 20              | QPSK   | 100 | 0  | 19.62  | 19.84  | 19.60  |                        |             |
| 20              | 16QAM  | 1   | 0  | 19.73  | 19.75  | 19.76  | 20.6                   | 0           |
| 20              | 16QAM  | 1   | 49 | 19.92  | 19.78  | 19.65  |                        |             |
| 20              | 16QAM  | 1   | 99 | 19.53  | 19.49  | 19.66  |                        |             |
| 20              | 16QAM  | 50  | 0  | 19.72  | 19.58  | 19.71  | 20.6                   | 0           |
| 20              | 16QAM  | 50  | 24 | 19.53  | 19.51  | 19.57  |                        |             |
| 20              | 16QAM  | 50  | 50 | 19.75  | 19.78  | 19.77  |                        |             |
| 20              | 16QAM  | 100 | 0  | 19.51  | 19.61  | 19.66  | 20.6                   | 0           |
| 20              | 64QAM  | 1   | 0  | 19.80  | 19.71  | 19.60  |                        |             |
| 20              | 64QAM  | 1   | 49 | 19.64  | 19.60  | 19.76  |                        |             |
| 20              | 64QAM  | 1   | 99 | 19.66  | 19.59  | 19.65  | 20.6                   | 0           |
| 20              | 64QAM  | 50  | 0  | 19.86  | 20.00  | 19.74  |                        |             |
| 20              | 64QAM  | 50  | 24 | 19.98  | 19.95  | 19.97  |                        |             |
| 20              | 64QAM  | 50  | 50 | 19.91  | 19.86  | 19.85  | 20                     | 0.6         |
| 20              | 256QAM | 1   | 0  | 18.49  | 18.54  | 18.46  |                        |             |
| 20              | 256QAM | 1   | 49 | 18.69  | 18.61  | 18.61  |                        |             |
| 20              | 256QAM | 1   | 99 | 18.52  | 18.44  | 18.35  | 20                     | 0.6         |
| 20              | 256QAM | 50  | 0  | 18.60  | 18.53  | 18.48  |                        |             |
| 20              | 256QAM | 50  | 24 | 18.65  | 18.62  | 18.70  |                        |             |
| 20              | 256QAM | 50  | 50 | 18.53  | 18.62  | 18.64  | 20                     | 0.6         |
| 20              | 256QAM | 100 | 0  | 18.53  | 18.58  | 18.54  |                        |             |
| Channel         |        |     |    | 132047 | 132322 | 132597 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 1717.5 | 1745   | 1772.5 |                        |             |
| 15              | QPSK   | 1   | 0  | 19.85  | 20.01  | 19.73  | 20.6                   | 0           |
| 15              | QPSK   | 1   | 37 | 19.90  | 19.97  | 19.92  |                        |             |
| 15              | QPSK   | 1   | 74 | 19.90  | 19.87  | 19.90  |                        |             |
| 15              | QPSK   | 36  | 0  | 19.62  | 19.94  | 19.78  | 20.6                   | 0           |
| 15              | QPSK   | 36  | 20 | 19.76  | 19.87  | 19.86  |                        |             |
| 15              | QPSK   | 36  | 39 | 19.81  | 19.78  | 19.78  |                        |             |
| 15              | QPSK   | 75  | 0  | 19.54  | 19.74  | 19.55  | 20.6                   | 0           |
| 15              | 16QAM  | 1   | 0  | 19.68  | 19.68  | 19.67  |                        |             |
| 15              | 16QAM  | 1   | 37 | 19.88  | 19.70  | 19.61  |                        |             |
| 15              | 16QAM  | 1   | 74 | 19.47  | 19.44  | 19.60  | 20.6                   | 0           |
| 15              | 16QAM  | 36  | 0  | 19.67  | 19.49  | 19.65  |                        |             |
| 15              | 16QAM  | 36  | 20 | 19.49  | 19.49  | 19.52  |                        |             |
| 15              | 16QAM  | 36  | 39 | 19.68  | 19.72  | 19.70  | 20.6                   | 0           |
| 15              | 16QAM  | 75  | 0  | 19.41  | 19.56  | 19.60  |                        |             |
| 15              | 64QAM  | 1   | 0  | 19.71  | 19.65  | 19.54  |                        |             |
| 15              | 64QAM  | 1   | 37 | 19.60  | 19.56  | 19.71  | 20.6                   | 0           |
| 15              | 64QAM  | 1   | 74 | 19.59  | 19.55  | 19.56  |                        |             |
| 15              | 64QAM  | 36  | 0  | 19.80  | 19.92  | 19.69  |                        |             |
| 15              | 64QAM  | 36  | 20 | 19.92  | 19.85  | 19.90  | 20.6                   | 0           |
| 15              | 64QAM  | 36  | 39 | 19.88  | 19.79  | 19.76  |                        |             |
| 15              | 64QAM  | 75  | 0  | 19.51  | 19.86  | 19.72  |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 256QAM | 1  | 0  | 18.40  | 18.48  | 18.29  | 20                     | 0.6         |
| 15              | 256QAM | 1  | 37 | 18.57  | 18.43  | 18.42  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.35  | 18.25  | 18.20  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.56  | 18.50  | 18.35  | 20                     | 0.6         |
| 15              | 256QAM | 36 | 20 | 18.54  | 18.47  | 18.58  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.47  | 18.60  | 18.59  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.47  | 18.41  | 18.47  |                        |             |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                        |             |
| 10              | QPSK   | 1  | 0  | 19.78  | 20.06  | 19.76  | 20.6                   | 0           |
| 10              | QPSK   | 1  | 25 | 19.94  | 19.96  | 19.97  |                        |             |
| 10              | QPSK   | 1  | 49 | 19.88  | 19.80  | 19.91  |                        |             |
| 10              | QPSK   | 25 | 0  | 19.66  | 19.98  | 19.77  | 20.6                   | 0           |
| 10              | QPSK   | 25 | 12 | 19.77  | 19.88  | 19.84  |                        |             |
| 10              | QPSK   | 25 | 25 | 19.84  | 19.79  | 19.78  |                        |             |
| 10              | QPSK   | 50 | 0  | 19.54  | 19.82  | 19.53  |                        |             |
| 10              | 16QAM  | 1  | 0  | 19.64  | 19.66  | 19.70  | 20.6                   | 0           |
| 10              | 16QAM  | 1  | 25 | 19.84  | 19.70  | 19.58  |                        |             |
| 10              | 16QAM  | 1  | 49 | 19.49  | 19.46  | 19.64  |                        |             |
| 10              | 16QAM  | 25 | 0  | 19.66  | 19.53  | 19.63  | 20.6                   | 0           |
| 10              | 16QAM  | 25 | 12 | 19.48  | 19.42  | 19.55  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.67  | 19.70  | 19.70  |                        |             |
| 10              | 16QAM  | 50 | 0  | 19.48  | 19.54  | 19.62  |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.75  | 19.68  | 19.51  | 20.6                   | 0           |
| 10              | 64QAM  | 1  | 25 | 19.61  | 19.51  | 19.69  |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.58  | 19.53  | 19.57  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.77  | 19.94  | 19.69  | 20.6                   | 0           |
| 10              | 64QAM  | 25 | 12 | 19.94  | 19.86  | 19.93  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.89  | 19.82  | 19.77  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.50  | 19.87  | 19.71  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.30  | 18.40  | 18.27  | 20                     | 0.6         |
| 10              | 256QAM | 1  | 25 | 18.51  | 18.56  | 18.56  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.36  | 18.42  | 18.29  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.41  | 18.42  | 18.42  | 20                     | 0.6         |
| 10              | 256QAM | 25 | 12 | 18.54  | 18.50  | 18.61  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.42  | 18.54  | 18.57  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.41  | 18.53  | 18.42  |                        |             |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 19.82  | 20.06  | 19.77  | 20.6                   | 0           |
| 5               | QPSK   | 1  | 12 | 19.91  | 19.99  | 19.99  |                        |             |
| 5               | QPSK   | 1  | 24 | 19.88  | 19.80  | 19.88  |                        |             |
| 5               | QPSK   | 12 | 0  | 19.64  | 19.92  | 19.74  | 20.6                   | 0           |
| 5               | QPSK   | 12 | 7  | 19.83  | 19.89  | 19.88  |                        |             |
| 5               | QPSK   | 12 | 13 | 19.83  | 19.76  | 19.83  |                        |             |
| 5               | QPSK   | 25 | 0  | 19.60  | 19.78  | 19.54  |                        |             |
| 5               | 16QAM  | 1  | 0  | 19.66  | 19.69  | 19.71  | 20.6                   | 0           |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 5               | 16QAM  | 1  | 12 | 19.86  | 19.76  | 19.57  |                        |             |
| 5               | 16QAM  | 1  | 24 | 19.45  | 19.43  | 19.56  |                        |             |
| 5               | 16QAM  | 12 | 0  | 19.65  | 19.54  | 19.65  |                        |             |
| 5               | 16QAM  | 12 | 7  | 19.45  | 19.49  | 19.55  | 20.6                   | 0           |
| 5               | 16QAM  | 12 | 13 | 19.73  | 19.72  | 19.73  |                        |             |
| 5               | 16QAM  | 25 | 0  | 19.43  | 19.57  | 19.57  |                        |             |
| 5               | 64QAM  | 1  | 0  | 19.71  | 19.64  | 19.55  | 20.6                   | 0           |
| 5               | 64QAM  | 1  | 12 | 19.56  | 19.56  | 19.74  |                        |             |
| 5               | 64QAM  | 1  | 24 | 19.59  | 19.54  | 19.58  |                        |             |
| 5               | 64QAM  | 12 | 0  | 19.79  | 19.90  | 19.70  | 20.6                   | 0           |
| 5               | 64QAM  | 12 | 7  | 19.89  | 19.88  | 19.87  |                        |             |
| 5               | 64QAM  | 12 | 13 | 19.84  | 19.84  | 19.77  |                        |             |
| 5               | 64QAM  | 25 | 0  | 19.53  | 19.87  | 19.67  | 20                     | 0.6         |
| 5               | 256QAM | 1  | 0  | 18.46  | 18.37  | 18.26  |                        |             |
| 5               | 256QAM | 1  | 12 | 18.50  | 18.46  | 18.57  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.45  | 18.32  | 18.24  | 20                     | 0.6         |
| 5               | 256QAM | 12 | 0  | 18.42  | 18.35  | 18.43  |                        |             |
| 5               | 256QAM | 12 | 7  | 18.61  | 18.56  | 18.59  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.45  | 18.59  | 18.58  | 20                     | 0.6         |
| 5               | 256QAM | 25 | 0  | 18.41  | 18.40  | 18.53  |                        |             |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 19.84  | 20.04  | 19.72  | 20.6                   | 0           |
| 3               | QPSK   | 1  | 8  | 19.95  | 19.95  | 19.94  |                        |             |
| 3               | QPSK   | 1  | 14 | 19.88  | 19.82  | 19.86  |                        |             |
| 3               | QPSK   | 8  | 0  | 19.63  | 19.98  | 19.81  | 20.6                   | 0           |
| 3               | QPSK   | 8  | 4  | 19.75  | 19.89  | 19.88  |                        |             |
| 3               | QPSK   | 8  | 7  | 19.82  | 19.81  | 19.80  |                        |             |
| 3               | QPSK   | 15 | 0  | 19.53  | 19.78  | 19.52  | 20.6                   | 0           |
| 3               | 16QAM  | 1  | 0  | 19.66  | 19.73  | 19.69  |                        |             |
| 3               | 16QAM  | 1  | 8  | 19.83  | 19.69  | 19.59  |                        |             |
| 3               | 16QAM  | 1  | 14 | 19.46  | 19.46  | 19.60  | 20.6                   | 0           |
| 3               | 16QAM  | 8  | 0  | 19.70  | 19.55  | 19.65  |                        |             |
| 3               | 16QAM  | 8  | 4  | 19.49  | 19.49  | 19.48  |                        |             |
| 3               | 16QAM  | 8  | 7  | 19.69  | 19.70  | 19.70  | 20.6                   | 0           |
| 3               | 16QAM  | 15 | 0  | 19.41  | 19.54  | 19.63  |                        |             |
| 3               | 64QAM  | 1  | 0  | 19.77  | 19.62  | 19.55  |                        |             |
| 3               | 64QAM  | 1  | 8  | 19.55  | 19.55  | 19.69  | 20.6                   | 0           |
| 3               | 64QAM  | 1  | 14 | 19.60  | 19.56  | 19.55  |                        |             |
| 3               | 64QAM  | 8  | 0  | 19.83  | 19.94  | 19.67  |                        |             |
| 3               | 64QAM  | 8  | 4  | 19.88  | 19.90  | 19.90  | 20.6                   | 0           |
| 3               | 64QAM  | 8  | 7  | 19.84  | 19.81  | 19.77  |                        |             |
| 3               | 64QAM  | 15 | 0  | 19.48  | 19.83  | 19.70  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.41  | 18.40  | 18.41  | 20                     | 0.6         |
| 3               | 256QAM | 1  | 8  | 18.55  | 18.42  | 18.46  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.33  | 18.24  | 18.26  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.53  | 18.53  | 18.44  | 20                     | 0.6         |

|                 |        |    |   |        |        |        |                        |             |
|-----------------|--------|----|---|--------|--------|--------|------------------------|-------------|
| 3               | 256QAM | 8  | 4 | 18.51  | 18.59  | 18.53  |                        |             |
| 3               | 256QAM | 8  | 7 | 18.39  | 18.55  | 18.46  |                        |             |
| 3               | 256QAM | 15 | 0 | 18.51  | 18.58  | 18.47  |                        |             |
| Channel         |        |    |   | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |   | 1710.7 | 1745   | 1779.3 |                        |             |
| 1.4             | QPSK   | 1  | 0 | 19.79  | 20.02  | 19.76  | 20.6                   | 0           |
| 1.4             | QPSK   | 1  | 3 | 19.97  | 19.95  | 19.96  |                        |             |
| 1.4             | QPSK   | 1  | 5 | 19.94  | 19.84  | 19.89  |                        |             |
| 1.4             | QPSK   | 3  | 0 | 19.59  | 19.92  | 19.74  |                        |             |
| 1.4             | QPSK   | 3  | 1 | 19.76  | 19.88  | 19.89  |                        |             |
| 1.4             | QPSK   | 3  | 3 | 19.85  | 19.73  | 19.81  |                        |             |
| 1.4             | QPSK   | 6  | 0 | 19.55  | 19.76  | 19.51  | 20.6                   | 0           |
| 1.4             | 16QAM  | 1  | 0 | 19.68  | 19.71  | 19.66  | 20.6                   | 0           |
| 1.4             | 16QAM  | 1  | 3 | 19.86  | 19.69  | 19.63  |                        |             |
| 1.4             | 16QAM  | 1  | 5 | 19.45  | 19.44  | 19.59  |                        |             |
| 1.4             | 16QAM  | 3  | 0 | 19.64  | 19.50  | 19.64  |                        |             |
| 1.4             | 16QAM  | 3  | 1 | 19.46  | 19.45  | 19.49  |                        |             |
| 1.4             | 16QAM  | 3  | 3 | 19.69  | 19.69  | 19.68  |                        |             |
| 1.4             | 16QAM  | 6  | 0 | 19.48  | 19.53  | 19.58  | 20.6                   | 0           |
| 1.4             | 64QAM  | 1  | 0 | 19.74  | 19.63  | 19.52  | 20.6                   | 0           |
| 1.4             | 64QAM  | 1  | 3 | 19.61  | 19.54  | 19.73  |                        |             |
| 1.4             | 64QAM  | 1  | 5 | 19.58  | 19.50  | 19.58  |                        |             |
| 1.4             | 64QAM  | 3  | 0 | 19.78  | 19.98  | 19.70  |                        |             |
| 1.4             | 64QAM  | 3  | 1 | 19.92  | 19.90  | 19.90  |                        |             |
| 1.4             | 64QAM  | 3  | 3 | 19.85  | 19.82  | 19.79  |                        |             |
| 1.4             | 64QAM  | 6  | 0 | 19.49  | 19.85  | 19.67  | 20.6                   | 0           |
| 1.4             | 256QAM | 1  | 0 | 18.41  | 18.50  | 18.52  | 20                     | 0.6         |
| 1.4             | 256QAM | 1  | 3 | 18.65  | 18.49  | 18.43  |                        |             |
| 1.4             | 256QAM | 1  | 5 | 18.48  | 18.41  | 18.49  |                        |             |
| 1.4             | 256QAM | 3  | 0 | 18.50  | 18.42  | 18.46  |                        |             |
| 1.4             | 256QAM | 3  | 1 | 18.46  | 18.50  | 18.61  |                        |             |
| 1.4             | 256QAM | 3  | 3 | 18.51  | 18.45  | 18.52  |                        |             |
| 1.4             | 256QAM | 6  | 0 | 18.41  | 18.40  | 18.53  | 20                     | 0.6         |

| Band 7 Ant3 DSI4 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |
| Frequency (MHz)  |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |
| 20               | QPSK       | 1       | 0         | 16.75                 | 16.85                    | 16.77                  | 17.9                | 0        |
| 20               | QPSK       | 1       | 49        | 16.81                 | 16.78                    | 16.75                  |                     |          |
| 20               | QPSK       | 1       | 99        | 16.77                 | 16.82                    | 16.65                  |                     |          |
| 20               | QPSK       | 50      | 0         | 16.66                 | 16.78                    | 16.69                  | 17.9                | 0        |
| 20               | QPSK       | 50      | 24        | 16.70                 | 16.56                    | 16.71                  |                     |          |
| 20               | QPSK       | 50      | 50        | 16.72                 | 16.57                    | 16.63                  |                     |          |
| 20               | QPSK       | 100     | 0         | 16.39                 | 16.64                    | 16.47                  | 17.9                | 0        |
| 20               | 16QAM      | 1       | 0         | 16.57                 | 16.47                    | 16.51                  |                     |          |
| 20               | 16QAM      | 1       | 49        | 16.53                 | 16.56                    | 16.54                  |                     |          |
| 20               | 16QAM      | 1       | 99        | 16.30                 | 16.24                    | 16.34                  | 17.9                | 0        |
| 20               | 16QAM      | 50      | 0         | 16.53                 | 16.22                    | 16.49                  |                     |          |
| 20               | 16QAM      | 50      | 24        | 16.28                 | 16.31                    | 16.37                  |                     |          |
| 20               | 16QAM      | 50      | 50        | 16.51                 | 16.42                    | 16.52                  | 17.9                | 0        |
| 20               | 16QAM      | 100     | 0         | 16.42                 | 16.35                    | 16.47                  |                     |          |
| 20               | 64QAM      | 1       | 0         | 16.53                 | 16.39                    | 16.26                  |                     |          |
| 20               | 64QAM      | 1       | 49        | 16.47                 | 16.31                    | 16.51                  | 17.9                | 0        |
| 20               | 64QAM      | 1       | 99        | 16.47                 | 16.39                    | 16.44                  |                     |          |
| 20               | 64QAM      | 50      | 0         | 16.38                 | 16.29                    | 16.30                  |                     |          |
| 20               | 64QAM      | 50      | 24        | 16.51                 | 16.50                    | 16.44                  | 17.9                | 0        |
| 20               | 64QAM      | 50      | 50        | 16.40                 | 16.38                    | 16.51                  |                     |          |
| 20               | 64QAM      | 100     | 0         | 16.37                 | 16.28                    | 16.42                  |                     |          |
| 20               | 256QAM     | 1       | 0         | 16.66                 | 16.79                    | 16.73                  | 17.9                | 0        |
| 20               | 256QAM     | 1       | 49        | 16.67                 | 16.70                    | 16.65                  |                     |          |
| 20               | 256QAM     | 1       | 99        | 16.69                 | 16.80                    | 16.58                  |                     |          |
| 20               | 256QAM     | 50      | 0         | 16.52                 | 16.74                    | 16.61                  | 17.9                | 0        |
| 20               | 256QAM     | 50      | 24        | 16.60                 | 16.51                    | 16.64                  |                     |          |
| 20               | 256QAM     | 50      | 50        | 16.59                 | 16.48                    | 16.57                  |                     |          |
| 20               | 256QAM     | 100     | 0         | 16.32                 | 16.55                    | 16.40                  | 17.9                | 0        |
| Channel          |            |         |           | 20825                 | 21100                    | 21375                  |                     |          |
| Frequency (MHz)  |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |
| 15               | QPSK       | 1       | 0         | 16.72                 | 16.71                    | 16.66                  | 17.9                | 0        |
| 15               | QPSK       | 1       | 37        | 16.70                 | 16.68                    | 16.62                  |                     |          |
| 15               | QPSK       | 1       | 74        | 16.64                 | 16.75                    | 16.56                  |                     |          |
| 15               | QPSK       | 36      | 0         | 16.53                 | 16.76                    | 16.55                  | 17.9                | 0        |
| 15               | QPSK       | 36      | 20        | 16.59                 | 16.47                    | 16.63                  |                     |          |
| 15               | QPSK       | 36      | 39        | 16.63                 | 16.55                    | 16.53                  |                     |          |
| 15               | QPSK       | 75      | 0         | 16.34                 | 16.52                    | 16.45                  | 17.9                | 0        |
| 15               | 16QAM      | 1       | 0         | 16.45                 | 16.38                    | 16.41                  |                     |          |
| 15               | 16QAM      | 1       | 37        | 16.47                 | 16.50                    | 16.49                  |                     |          |
| 15               | 16QAM      | 1       | 74        | 16.19                 | 16.16                    | 16.29                  | 17.9                | 0        |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 16QAM  | 36 | 0  | 16.40 | 16.18 | 16.45 | 17.9                   | 0           |
| 15              | 16QAM  | 36 | 20 | 16.17 | 16.29 | 16.25 |                        |             |
| 15              | 16QAM  | 36 | 39 | 16.38 | 16.30 | 16.49 |                        |             |
| 15              | 16QAM  | 75 | 0  | 16.39 | 16.23 | 16.41 |                        |             |
| 15              | 64QAM  | 1  | 0  | 16.41 | 16.34 | 16.18 | 17.9                   | 0           |
| 15              | 64QAM  | 1  | 37 | 16.43 | 16.17 | 16.41 |                        |             |
| 15              | 64QAM  | 1  | 74 | 16.41 | 16.27 | 16.41 |                        |             |
| 15              | 64QAM  | 36 | 0  | 16.31 | 16.23 | 16.22 | 17.9                   | 0           |
| 15              | 64QAM  | 36 | 20 | 16.48 | 16.39 | 16.31 |                        |             |
| 15              | 64QAM  | 36 | 39 | 16.34 | 16.27 | 16.43 |                        |             |
| 15              | 64QAM  | 75 | 0  | 16.33 | 16.25 | 16.36 |                        |             |
| 15              | 256QAM | 1  | 0  | 16.63 | 16.75 | 16.62 | 17.9                   | 0           |
| 15              | 256QAM | 1  | 37 | 16.57 | 16.64 | 16.61 |                        |             |
| 15              | 256QAM | 1  | 74 | 16.67 | 16.66 | 16.45 |                        |             |
| 15              | 256QAM | 36 | 0  | 16.41 | 16.67 | 16.48 | 17.9                   | 0           |
| 15              | 256QAM | 36 | 20 | 16.53 | 16.43 | 16.53 |                        |             |
| 15              | 256QAM | 36 | 39 | 16.46 | 16.40 | 16.49 |                        |             |
| 15              | 256QAM | 75 | 0  | 16.22 | 16.48 | 16.34 |                        |             |
| Channel         |        |    |    | 20800 | 21100 | 21400 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2505  | 2535  | 2565  |                        |             |
| 10              | QPSK   | 1  | 0  | 16.62 | 16.79 | 16.66 | 17.9                   | 0           |
| 10              | QPSK   | 1  | 25 | 16.72 | 16.65 | 16.63 |                        |             |
| 10              | QPSK   | 1  | 49 | 16.75 | 16.76 | 16.62 |                        |             |
| 10              | QPSK   | 25 | 0  | 16.58 | 16.72 | 16.57 | 17.9                   | 0           |
| 10              | QPSK   | 25 | 12 | 16.61 | 16.53 | 16.62 |                        |             |
| 10              | QPSK   | 25 | 25 | 16.66 | 16.54 | 16.55 |                        |             |
| 10              | QPSK   | 50 | 0  | 16.34 | 16.52 | 16.35 |                        |             |
| 10              | 16QAM  | 1  | 0  | 16.49 | 16.39 | 16.41 | 17.9                   | 0           |
| 10              | 16QAM  | 1  | 25 | 16.47 | 16.49 | 16.47 |                        |             |
| 10              | 16QAM  | 1  | 49 | 16.21 | 16.13 | 16.20 |                        |             |
| 10              | 16QAM  | 25 | 0  | 16.49 | 16.17 | 16.40 | 17.9                   | 0           |
| 10              | 16QAM  | 25 | 12 | 16.18 | 16.28 | 16.35 |                        |             |
| 10              | 16QAM  | 25 | 25 | 16.45 | 16.29 | 16.46 |                        |             |
| 10              | 16QAM  | 50 | 0  | 16.33 | 16.30 | 16.40 |                        |             |
| 10              | 64QAM  | 1  | 0  | 16.50 | 16.33 | 16.20 | 17.9                   | 0           |
| 10              | 64QAM  | 1  | 25 | 16.45 | 16.19 | 16.40 |                        |             |
| 10              | 64QAM  | 1  | 49 | 16.37 | 16.33 | 16.31 |                        |             |
| 10              | 64QAM  | 25 | 0  | 16.34 | 16.26 | 16.16 | 17.9                   | 0           |
| 10              | 64QAM  | 25 | 12 | 16.44 | 16.47 | 16.32 |                        |             |
| 10              | 64QAM  | 25 | 25 | 16.37 | 16.32 | 16.38 |                        |             |
| 10              | 64QAM  | 50 | 0  | 16.33 | 16.21 | 16.36 |                        |             |
| 10              | 256QAM | 1  | 0  | 16.62 | 16.71 | 16.63 | 17.9                   | 0           |
| 10              | 256QAM | 1  | 25 | 16.54 | 16.66 | 16.63 |                        |             |
| 10              | 256QAM | 1  | 49 | 16.63 | 16.73 | 16.54 |                        |             |
| 10              | 256QAM | 25 | 0  | 16.43 | 16.66 | 16.53 | 17.9                   | 0           |
| 10              | 256QAM | 25 | 12 | 16.50 | 16.37 | 16.53 |                        |             |
| 10              | 256QAM | 25 | 25 | 16.52 | 16.36 | 16.52 |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 10              | 256QAM | 50 | 0  | 16.19  | 16.47 | 16.33  |                        |             |
| Channel         |        |    |    | 20775  | 21100 | 21425  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2535  | 2567.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 16.64  | 16.77 | 16.64  | 17.9                   | 0           |
| 5               | QPSK   | 1  | 12 | 16.78  | 16.73 | 16.71  |                        |             |
| 5               | QPSK   | 1  | 24 | 16.69  | 16.78 | 16.57  |                        |             |
| 5               | QPSK   | 12 | 0  | 16.63  | 16.65 | 16.65  | 17.9                   | 0           |
| 5               | QPSK   | 12 | 7  | 16.58  | 16.43 | 16.64  |                        |             |
| 5               | QPSK   | 12 | 13 | 16.60  | 16.45 | 16.56  |                        |             |
| 5               | QPSK   | 25 | 0  | 16.29  | 16.52 | 16.35  | 17.9                   | 0           |
| 5               | 16QAM  | 1  | 0  | 16.44  | 16.38 | 16.46  |                        |             |
| 5               | 16QAM  | 1  | 12 | 16.46  | 16.51 | 16.44  |                        |             |
| 5               | 16QAM  | 1  | 24 | 16.18  | 16.17 | 16.31  | 17.9                   | 0           |
| 5               | 16QAM  | 12 | 0  | 16.45  | 16.19 | 16.45  |                        |             |
| 5               | 16QAM  | 12 | 7  | 16.17  | 16.25 | 16.24  |                        |             |
| 5               | 16QAM  | 12 | 13 | 16.47  | 16.32 | 16.46  | 17.9                   | 0           |
| 5               | 16QAM  | 25 | 0  | 16.36  | 16.27 | 16.37  |                        |             |
| 5               | 64QAM  | 1  | 0  | 16.44  | 16.28 | 16.17  |                        |             |
| 5               | 64QAM  | 1  | 12 | 16.39  | 16.21 | 16.39  | 17.9                   | 0           |
| 5               | 64QAM  | 1  | 24 | 16.41  | 16.29 | 16.30  |                        |             |
| 5               | 64QAM  | 12 | 0  | 16.34  | 16.17 | 16.20  |                        |             |
| 5               | 64QAM  | 12 | 7  | 16.46  | 16.47 | 16.39  | 17.9                   | 0           |
| 5               | 64QAM  | 12 | 13 | 16.29  | 16.27 | 16.39  |                        |             |
| 5               | 64QAM  | 25 | 0  | 16.25  | 16.21 | 16.39  |                        |             |
| 5               | 256QAM | 1  | 0  | 16.54  | 16.67 | 16.62  | 17.9                   | 0           |
| 5               | 256QAM | 1  | 12 | 16.61  | 16.62 | 16.52  |                        |             |
| 5               | 256QAM | 1  | 24 | 16.59  | 16.75 | 16.46  |                        |             |
| 5               | 256QAM | 12 | 0  | 16.47  | 16.63 | 16.52  | 17.9                   | 0           |
| 5               | 256QAM | 12 | 7  | 16.53  | 16.45 | 16.61  |                        |             |
| 5               | 256QAM | 12 | 13 | 16.51  | 16.39 | 16.55  |                        |             |
| 5               | 256QAM | 25 | 0  | 16.28  | 16.45 | 16.31  |                        |             |

| Band 30 Ant3 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 27710                 |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 2310                  |                          |                        |                     |          |
| 10                | QPSK       | 1       | 0         |                       | 18.01                    |                        | 18.9                | 0        |
| 10                | QPSK       | 1       | 25        |                       | 17.88                    |                        |                     |          |
| 10                | QPSK       | 1       | 49        |                       | 17.96                    |                        |                     |          |
| 10                | QPSK       | 25      | 0         |                       | 17.96                    |                        | 18.9                | 0        |
| 10                | QPSK       | 25      | 12        |                       | 17.72                    |                        |                     |          |
| 10                | QPSK       | 25      | 25        |                       | 17.84                    |                        |                     |          |
| 10                | QPSK       | 50      | 0         |                       | 17.67                    |                        | 18.9                | 0        |
| 10                | 16QAM      | 1       | 0         |                       | 17.97                    |                        |                     |          |
| 10                | 16QAM      | 1       | 25        |                       | 17.76                    |                        |                     |          |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 10              | 16QAM  | 1  | 49 |        | 17.93 |        |                        |             |
| 10              | 16QAM  | 25 | 0  |        | 17.87 |        |                        |             |
| 10              | 16QAM  | 25 | 12 |        | 17.58 |        |                        |             |
| 10              | 16QAM  | 25 | 25 |        | 17.75 |        |                        |             |
| 10              | 16QAM  | 50 | 0  |        | 17.58 |        |                        |             |
| 10              | 64QAM  | 1  | 0  |        | 17.92 |        |                        |             |
| 10              | 64QAM  | 1  | 25 |        | 17.82 |        |                        |             |
| 10              | 64QAM  | 1  | 49 |        | 17.88 |        |                        |             |
| 10              | 64QAM  | 25 | 0  |        | 17.91 |        |                        |             |
| 10              | 64QAM  | 25 | 12 |        | 17.70 |        |                        |             |
| 10              | 64QAM  | 25 | 25 |        | 17.72 |        |                        |             |
| 10              | 64QAM  | 50 | 0  |        | 17.55 |        |                        |             |
| 10              | 256QAM | 1  | 0  |        | 17.96 |        |                        |             |
| 10              | 256QAM | 1  | 25 |        | 17.84 |        |                        |             |
| 10              | 256QAM | 1  | 49 |        | 17.87 |        |                        |             |
| 10              | 256QAM | 25 | 0  |        | 17.88 |        |                        |             |
| 10              | 256QAM | 25 | 12 |        | 17.62 |        |                        |             |
| 10              | 256QAM | 25 | 25 |        | 17.72 |        |                        |             |
| 10              | 256QAM | 50 | 0  |        | 17.65 |        |                        |             |
| Channel         |        |    |    | 27685  | 27710 | 27735  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2307.5 | 2310  | 2312.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 17.97  | 17.95 | 17.87  |                        |             |
| 5               | QPSK   | 1  | 12 | 17.76  | 17.85 | 17.75  |                        |             |
| 5               | QPSK   | 1  | 24 | 17.93  | 17.92 | 17.88  |                        |             |
| 5               | QPSK   | 12 | 0  | 17.91  | 17.82 | 17.90  |                        |             |
| 5               | QPSK   | 12 | 7  | 17.69  | 17.66 | 17.66  |                        |             |
| 5               | QPSK   | 12 | 13 | 17.79  | 17.81 | 17.74  |                        |             |
| 5               | QPSK   | 25 | 0  | 17.55  | 17.58 | 17.63  |                        |             |
| 5               | 16QAM  | 1  | 0  | 17.97  | 17.98 | 17.95  |                        |             |
| 5               | 16QAM  | 1  | 12 | 17.76  | 17.74 | 17.83  |                        |             |
| 5               | 16QAM  | 1  | 24 | 17.83  | 17.84 | 17.91  |                        |             |
| 5               | 16QAM  | 12 | 0  | 17.87  | 17.92 | 17.82  |                        |             |
| 5               | 16QAM  | 12 | 7  | 17.64  | 17.64 | 17.64  |                        |             |
| 5               | 16QAM  | 12 | 13 | 17.72  | 17.71 | 17.73  |                        |             |
| 5               | 16QAM  | 25 | 0  | 17.62  | 17.64 | 17.60  |                        |             |
| 5               | 64QAM  | 1  | 0  | 17.91  | 17.94 | 17.96  |                        |             |
| 5               | 64QAM  | 1  | 12 | 17.79  | 17.83 | 17.77  |                        |             |
| 5               | 64QAM  | 1  | 24 | 17.86  | 17.85 | 17.82  |                        |             |
| 5               | 64QAM  | 12 | 0  | 17.91  | 17.91 | 17.94  |                        |             |
| 5               | 64QAM  | 12 | 7  | 17.69  | 17.68 | 17.64  |                        |             |
| 5               | 64QAM  | 12 | 13 | 17.80  | 17.82 | 17.79  |                        |             |
| 5               | 64QAM  | 25 | 0  | 17.53  | 17.56 | 17.60  |                        |             |
| 5               | 256QAM | 1  | 0  | 17.93  | 17.88 | 17.95  |                        |             |
| 5               | 256QAM | 1  | 12 | 17.81  | 17.81 | 17.84  |                        |             |
| 5               | 256QAM | 1  | 24 | 17.88  | 17.83 | 17.90  |                        |             |
| 5               | 256QAM | 12 | 0  | 17.90  | 17.85 | 17.85  |                        |             |
| 5               | 256QAM | 12 | 7  | 17.62  | 17.69 | 17.67  |                        |             |

|   |        |    |    |       |       |       |  |  |
|---|--------|----|----|-------|-------|-------|--|--|
| 5 | 256QAM | 12 | 13 | 17.75 | 17.73 | 17.76 |  |  |
| 5 | 256QAM | 25 | 0  | 17.59 | 17.58 | 17.55 |  |  |

| Band 2 Ant5 DSI4 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 18700                 | 18900                    | 19100                  |                     |          |
| Frequency (MHz)  |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20               | QPSK       | 1       | 0         | 20.67                 | 20.85                    | 20.53                  | 21.7                | 0        |
| 20               | QPSK       | 1       | 49        | 20.71                 | 20.80                    | 20.62                  |                     |          |
| 20               | QPSK       | 1       | 99        | 20.59                 | 20.69                    | 20.59                  |                     |          |
| 20               | QPSK       | 50      | 0         | 20.55                 | 20.81                    | 20.41                  | 21.7                | 0        |
| 20               | QPSK       | 50      | 24        | 20.68                 | 20.69                    | 20.50                  |                     |          |
| 20               | QPSK       | 50      | 50        | 20.53                 | 20.66                    | 20.49                  |                     |          |
| 20               | QPSK       | 100     | 0         | 20.63                 | 20.74                    | 20.50                  |                     |          |
| 20               | 16QAM      | 1       | 0         | 20.53                 | 20.78                    | 20.49                  | 21.7                | 0        |
| 20               | 16QAM      | 1       | 49        | 20.58                 | 20.75                    | 20.50                  |                     |          |
| 20               | 16QAM      | 1       | 99        | 20.46                 | 20.67                    | 20.56                  |                     |          |
| 20               | 16QAM      | 50      | 0         | 20.62                 | 20.79                    | 20.46                  | 21.7                | 0        |
| 20               | 16QAM      | 50      | 24        | 20.63                 | 20.73                    | 20.50                  |                     |          |
| 20               | 16QAM      | 50      | 50        | 20.53                 | 20.62                    | 20.56                  |                     |          |
| 20               | 16QAM      | 100     | 0         | 20.44                 | 20.76                    | 20.37                  |                     |          |
| 20               | 64QAM      | 1       | 0         | 20.61                 | 20.67                    | 20.43                  | 21.7                | 0        |
| 20               | 64QAM      | 1       | 49        | 20.41                 | 20.58                    | 20.46                  |                     |          |
| 20               | 64QAM      | 1       | 99        | 20.53                 | 20.68                    | 20.45                  |                     |          |
| 20               | 64QAM      | 50      | 0         | 20.40                 | 20.54                    | 20.40                  | 21.7                | 0        |
| 20               | 64QAM      | 50      | 24        | 20.37                 | 20.51                    | 20.39                  |                     |          |
| 20               | 64QAM      | 50      | 50        | 20.42                 | 20.52                    | 20.42                  |                     |          |
| 20               | 64QAM      | 100     | 0         | 20.45                 | 20.55                    | 20.48                  |                     |          |
| 20               | 256QAM     | 1       | 0         | 18.48                 | 18.64                    | 18.52                  | 20                  | 1.7      |
| 20               | 256QAM     | 1       | 49        | 18.50                 | 18.57                    | 18.51                  |                     |          |
| 20               | 256QAM     | 1       | 99        | 18.43                 | 18.56                    | 18.44                  |                     |          |
| 20               | 256QAM     | 50      | 0         | 18.52                 | 18.58                    | 18.53                  | 20                  | 1.7      |
| 20               | 256QAM     | 50      | 24        | 18.42                 | 18.54                    | 18.39                  |                     |          |
| 20               | 256QAM     | 50      | 50        | 18.42                 | 18.51                    | 18.41                  |                     |          |
| 20               | 256QAM     | 100     | 0         | 18.46                 | 18.61                    | 18.49                  |                     |          |
| Channel          |            |         |           | 18675                 | 18900                    | 19125                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |
| 15               | QPSK       | 1       | 0         | 20.60                 | 20.76                    | 20.40                  | 21.7                | 0        |
| 15               | QPSK       | 1       | 37        | 20.58                 | 20.72                    | 20.52                  |                     |          |
| 15               | QPSK       | 1       | 74        | 20.49                 | 20.61                    | 20.55                  |                     |          |
| 15               | QPSK       | 36      | 0         | 20.48                 | 20.72                    | 20.37                  | 21.7                | 0        |
| 15               | QPSK       | 36      | 20        | 20.63                 | 20.60                    | 20.46                  |                     |          |
| 15               | QPSK       | 36      | 39        | 20.41                 | 20.57                    | 20.41                  |                     |          |
| 15               | QPSK       | 75      | 0         | 20.59                 | 20.69                    | 20.47                  |                     |          |
| 15               | 16QAM      | 1       | 0         | 20.39                 | 20.66                    | 20.37                  | 21.7                | 0        |
| 15               | 16QAM      | 1       | 37        | 20.47                 | 20.61                    | 20.43                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 16QAM  | 1  | 74 | 20.42 | 20.56 | 20.44 |                        |             |
| 15              | 16QAM  | 36 | 0  | 20.52 | 20.65 | 20.39 | 21.7                   | 0           |
| 15              | 16QAM  | 36 | 20 | 20.56 | 20.64 | 20.44 |                        |             |
| 15              | 16QAM  | 36 | 39 | 20.41 | 20.55 | 20.52 |                        |             |
| 15              | 16QAM  | 75 | 0  | 20.31 | 20.63 | 20.29 |                        |             |
| 15              | 64QAM  | 1  | 0  | 20.52 | 20.53 | 20.31 | 21.7                   | 0           |
| 15              | 64QAM  | 1  | 37 | 20.28 | 20.51 | 20.41 |                        |             |
| 15              | 64QAM  | 1  | 74 | 20.48 | 20.66 | 20.32 |                        |             |
| 15              | 64QAM  | 36 | 0  | 20.25 | 20.47 | 20.33 | 21.7                   | 0           |
| 15              | 64QAM  | 36 | 20 | 20.33 | 20.45 | 20.24 |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.27 | 20.48 | 20.34 |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.38 | 20.46 | 20.36 |                        |             |
| 15              | 256QAM | 1  | 0  | 18.35 | 18.56 | 18.37 | 20                     | 1.7         |
| 15              | 256QAM | 1  | 37 | 18.35 | 18.53 | 18.36 |                        |             |
| 15              | 256QAM | 1  | 74 | 18.31 | 18.42 | 18.31 |                        |             |
| 15              | 256QAM | 36 | 0  | 18.41 | 18.47 | 18.41 | 20                     | 1.7         |
| 15              | 256QAM | 36 | 20 | 18.37 | 18.42 | 18.23 |                        |             |
| 15              | 256QAM | 36 | 39 | 18.30 | 18.42 | 18.26 |                        |             |
| 15              | 256QAM | 75 | 0  | 18.39 | 18.46 | 18.35 |                        |             |
| Channel         |        |    |    | 18650 | 18900 | 19150 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1855  | 1880  | 1905  |                        |             |
| 10              | QPSK   | 1  | 0  | 20.60 | 20.83 | 20.46 | 21.7                   | 0           |
| 10              | QPSK   | 1  | 25 | 20.63 | 20.69 | 20.56 |                        |             |
| 10              | QPSK   | 1  | 49 | 20.52 | 20.57 | 20.54 |                        |             |
| 10              | QPSK   | 25 | 0  | 20.46 | 20.73 | 20.38 | 21.7                   | 0           |
| 10              | QPSK   | 25 | 12 | 20.60 | 20.58 | 20.37 |                        |             |
| 10              | QPSK   | 25 | 25 | 20.42 | 20.54 | 20.47 |                        |             |
| 10              | QPSK   | 50 | 0  | 20.55 | 20.61 | 20.48 |                        |             |
| 10              | 16QAM  | 1  | 0  | 20.42 | 20.68 | 20.43 | 21.7                   | 0           |
| 10              | 16QAM  | 1  | 25 | 20.47 | 20.72 | 20.37 |                        |             |
| 10              | 16QAM  | 1  | 49 | 20.39 | 20.63 | 20.48 |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.51 | 20.73 | 20.41 | 21.7                   | 0           |
| 10              | 16QAM  | 25 | 12 | 20.53 | 20.66 | 20.38 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.41 | 20.58 | 20.52 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.42 | 20.62 | 20.26 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.58 | 20.60 | 20.37 | 21.7                   | 0           |
| 10              | 64QAM  | 1  | 25 | 20.28 | 20.55 | 20.34 |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.41 | 20.59 | 20.35 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.30 | 20.39 | 20.36 | 21.7                   | 0           |
| 10              | 64QAM  | 25 | 12 | 20.33 | 20.46 | 20.32 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.27 | 20.39 | 20.34 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.38 | 20.50 | 20.40 |                        |             |
| 10              | 256QAM | 1  | 0  | 18.38 | 18.59 | 18.41 | 20                     | 1.7         |
| 10              | 256QAM | 1  | 25 | 18.45 | 18.44 | 18.38 |                        |             |
| 10              | 256QAM | 1  | 49 | 18.36 | 18.44 | 18.30 |                        |             |
| 10              | 256QAM | 25 | 0  | 18.46 | 18.53 | 18.41 | 20                     | 1.7         |
| 10              | 256QAM | 25 | 12 | 18.37 | 18.45 | 18.32 |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 10              | 256QAM | 25 | 25 | 18.30  | 18.40 | 18.37  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.30  | 18.48 | 18.41  |                        |             |
| Channel         |        |    |    | 18625  | 18900 | 19175  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1852.5 | 1880  | 1907.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 20.54  | 20.78 | 20.42  | 21.7                   | 0           |
| 5               | QPSK   | 1  | 12 | 20.65  | 20.68 | 20.49  |                        |             |
| 5               | QPSK   | 1  | 24 | 20.57  | 20.64 | 20.49  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.47  | 20.69 | 20.29  | 21.7                   | 0           |
| 5               | QPSK   | 12 | 7  | 20.65  | 20.62 | 20.45  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.39  | 20.61 | 20.38  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.56  | 20.72 | 20.39  |                        |             |
| 5               | 16QAM  | 1  | 0  | 20.47  | 20.64 | 20.40  | 21.7                   | 0           |
| 5               | 16QAM  | 1  | 12 | 20.45  | 20.67 | 20.43  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.39  | 20.61 | 20.45  |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.57  | 20.66 | 20.35  | 21.7                   | 0           |
| 5               | 16QAM  | 12 | 7  | 20.58  | 20.66 | 20.47  |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.48  | 20.57 | 20.47  |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.37  | 20.64 | 20.33  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.53  | 20.58 | 20.35  | 21.7                   | 0           |
| 5               | 64QAM  | 1  | 12 | 20.32  | 20.44 | 20.33  |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.41  | 20.60 | 20.41  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.31  | 20.39 | 20.34  | 21.7                   | 0           |
| 5               | 64QAM  | 12 | 7  | 20.28  | 20.37 | 20.27  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.36  | 20.40 | 20.29  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.38  | 20.44 | 20.41  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.44  | 18.60 | 18.36  | 20                     | 1.7         |
| 5               | 256QAM | 1  | 12 | 18.42  | 18.44 | 18.43  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.28  | 18.51 | 18.33  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.37  | 18.47 | 18.43  | 20                     | 1.7         |
| 5               | 256QAM | 12 | 7  | 18.28  | 18.43 | 18.25  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.31  | 18.41 | 18.35  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.38  | 18.52 | 18.33  |                        |             |
| Channel         |        |    |    | 18615  | 18900 | 19185  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1851.5 | 1880  | 1908.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 20.54  | 20.80 | 20.40  | 21.7                   | 0           |
| 3               | QPSK   | 1  | 8  | 20.63  | 20.71 | 20.57  |                        |             |
| 3               | QPSK   | 1  | 14 | 20.49  | 20.66 | 20.46  |                        |             |
| 3               | QPSK   | 8  | 0  | 20.51  | 20.79 | 20.27  | 21.7                   | 0           |
| 3               | QPSK   | 8  | 4  | 20.63  | 20.57 | 20.40  |                        |             |
| 3               | QPSK   | 8  | 7  | 20.50  | 20.63 | 20.44  |                        |             |
| 3               | QPSK   | 15 | 0  | 20.57  | 20.64 | 20.39  |                        |             |
| 3               | 16QAM  | 1  | 0  | 20.50  | 20.66 | 20.46  | 21.7                   | 0           |
| 3               | 16QAM  | 1  | 8  | 20.54  | 20.69 | 20.39  |                        |             |
| 3               | 16QAM  | 1  | 14 | 20.37  | 20.64 | 20.49  |                        |             |
| 3               | 16QAM  | 8  | 0  | 20.51  | 20.70 | 20.42  | 21.7                   | 0           |
| 3               | 16QAM  | 8  | 4  | 20.58  | 20.69 | 20.47  |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.46  | 20.58 | 20.47  |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 3               | 16QAM  | 15 | 0  | 20.31  | 20.66 | 20.29  |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.56  | 20.59 | 20.41  | 21.7                   | 0           |
| 3               | 64QAM  | 1  | 8  | 20.29  | 20.55 | 20.37  |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.39  | 20.62 | 20.39  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.28  | 20.39 | 20.34  | 21.7                   | 0           |
| 3               | 64QAM  | 8  | 4  | 20.31  | 20.46 | 20.28  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.37  | 20.46 | 20.30  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.33  | 20.47 | 20.33  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.39  | 18.50 | 18.45  | 20                     | 1.7         |
| 3               | 256QAM | 1  | 8  | 18.40  | 18.46 | 18.43  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.33  | 18.46 | 18.36  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.43  | 18.50 | 18.45  | 20                     | 1.7         |
| 3               | 256QAM | 8  | 4  | 18.32  | 18.41 | 18.30  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.30  | 18.37 | 18.35  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.36  | 18.53 | 18.42  |                        |             |
| Channel         |        |    |    | 18607  | 18900 | 19193  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1850.7 | 1880  | 1909.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 20.55  | 20.80 | 20.51  | 21.7                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 20.65  | 20.77 | 20.59  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 20.56  | 20.66 | 20.51  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 20.53  | 20.76 | 20.48  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 20.64  | 20.68 | 20.59  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 20.53  | 20.64 | 20.48  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 20.53  | 20.71 | 20.30  | 21.7                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 20.61  | 20.66 | 20.46  | 21.7                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 20.45  | 20.59 | 20.36  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 20.60  | 20.62 | 20.42  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 20.45  | 20.73 | 20.44  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 20.54  | 20.64 | 20.42  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 20.40  | 20.58 | 20.43  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 20.55  | 20.73 | 20.43  | 21.7                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 20.55  | 20.68 | 20.44  | 21.7                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 20.41  | 20.48 | 20.48  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 20.40  | 20.69 | 20.25  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 20.56  | 20.60 | 20.37  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 20.37  | 20.52 | 20.41  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 20.39  | 20.64 | 20.32  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.25  | 20.50 | 20.29  | 21.7                   | 0           |
| 1.4             | 256QAM | 1  | 0  | 18.32  | 18.46 | 18.29  | 20                     | 1.7         |
| 1.4             | 256QAM | 1  | 3  | 18.38  | 18.43 | 18.37  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.40  | 18.45 | 18.43  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.26  | 18.44 | 18.24  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.37  | 18.44 | 18.37  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.41  | 18.48 | 18.33  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.31  | 18.51 | 18.42  | 20                     | 1.7         |

| Band 4 Ant5 DSI4 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 20050                 | 20175                    | 20300                  |                     |          |
| Frequency (MHz)  |            |         |           | 1720                  | 1732.5                   | 1745                   |                     |          |
| 20               | QPSK       | 1       | 0         | 20.33                 | 20.60                    | 20.24                  | 21.5                | 0        |
| 20               | QPSK       | 1       | 49        | 20.41                 | 20.52                    | 20.31                  |                     |          |
| 20               | QPSK       | 1       | 99        | 20.22                 | 20.43                    | 20.16                  |                     |          |
| 20               | QPSK       | 50      | 0         | 20.22                 | 20.45                    | 20.12                  | 21.5                | 0        |
| 20               | QPSK       | 50      | 24        | 20.34                 | 20.34                    | 20.28                  |                     |          |
| 20               | QPSK       | 50      | 50        | 20.16                 | 20.27                    | 20.04                  |                     |          |
| 20               | QPSK       | 100     | 0         | 20.23                 | 20.40                    | 20.12                  | 21.5                | 0        |
| 20               | 16QAM      | 1       | 0         | 20.29                 | 20.30                    | 20.30                  |                     |          |
| 20               | 16QAM      | 1       | 49        | 20.21                 | 20.33                    | 20.21                  |                     |          |
| 20               | 16QAM      | 1       | 99        | 20.27                 | 20.47                    | 20.06                  | 21.5                | 0        |
| 20               | 16QAM      | 50      | 0         | 20.29                 | 20.47                    | 20.15                  |                     |          |
| 20               | 16QAM      | 50      | 24        | 20.25                 | 20.48                    | 20.16                  |                     |          |
| 20               | 16QAM      | 50      | 50        | 20.27                 | 20.43                    | 20.28                  | 21.5                | 0        |
| 20               | 16QAM      | 100     | 0         | 20.17                 | 20.33                    | 20.16                  |                     |          |
| 20               | 64QAM      | 1       | 0         | 20.21                 | 20.43                    | 20.08                  |                     |          |
| 20               | 64QAM      | 1       | 49        | 20.21                 | 20.19                    | 20.19                  | 21.5                | 0        |
| 20               | 64QAM      | 1       | 99        | 20.11                 | 20.22                    | 19.90                  |                     |          |
| 20               | 64QAM      | 50      | 0         | 20.12                 | 20.19                    | 20.10                  |                     |          |
| 20               | 64QAM      | 50      | 24        | 20.01                 | 20.24                    | 20.13                  | 21.5                | 0        |
| 20               | 64QAM      | 50      | 50        | 20.27                 | 20.24                    | 20.12                  |                     |          |
| 20               | 64QAM      | 100     | 0         | 20.23                 | 20.38                    | 20.35                  |                     |          |
| 20               | 256QAM     | 1       | 0         | 18.43                 | 18.58                    | 18.36                  | 20                  | 1.5      |
| 20               | 256QAM     | 1       | 49        | 18.45                 | 18.49                    | 18.41                  |                     |          |
| 20               | 256QAM     | 1       | 99        | 18.37                 | 18.44                    | 18.38                  |                     |          |
| 20               | 256QAM     | 50      | 0         | 18.47                 | 18.47                    | 18.39                  | 20                  | 1.5      |
| 20               | 256QAM     | 50      | 24        | 18.26                 | 18.40                    | 18.25                  |                     |          |
| 20               | 256QAM     | 50      | 50        | 18.29                 | 18.39                    | 18.28                  |                     |          |
| 20               | 256QAM     | 100     | 0         | 18.42                 | 18.50                    | 18.41                  | 21.5                | 0        |
| Channel          |            |         |           | 20025                 | 20175                    | 20325                  |                     |          |
| Frequency (MHz)  |            |         |           | 1717.5                | 1732.5                   | 1747.5                 |                     |          |
| 15               | QPSK       | 1       | 0         | 20.22                 | 20.49                    | 20.12                  | 21.5                | 0        |
| 15               | QPSK       | 1       | 37        | 20.27                 | 20.41                    | 20.28                  |                     |          |
| 15               | QPSK       | 1       | 74        | 20.13                 | 20.34                    | 20.10                  |                     |          |
| 15               | QPSK       | 36      | 0         | 20.20                 | 20.40                    | 20.08                  | 21.5                | 0        |
| 15               | QPSK       | 36      | 20        | 20.23                 | 20.25                    | 20.21                  |                     |          |
| 15               | QPSK       | 36      | 39        | 20.10                 | 20.13                    | 20.02                  |                     |          |
| 15               | QPSK       | 75      | 0         | 20.17                 | 20.35                    | 20.02                  | 21.5                | 0        |
| 15               | 16QAM      | 1       | 0         | 20.18                 | 20.27                    | 20.24                  |                     |          |
| 15               | 16QAM      | 1       | 37        | 20.17                 | 20.26                    | 20.13                  |                     |          |
| 15               | 16QAM      | 1       | 74        | 20.21                 | 20.37                    | 19.99                  | 21.5                | 0        |
| 15               | 16QAM      | 36      | 0         | 20.22                 | 20.35                    | 20.04                  |                     |          |

|                 |        |    |    |       |        |       |                        |             |
|-----------------|--------|----|----|-------|--------|-------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 20.12 | 20.40  | 20.03 |                        |             |
| 15              | 16QAM  | 36 | 39 | 20.15 | 20.36  | 20.15 |                        |             |
| 15              | 16QAM  | 75 | 0  | 20.06 | 20.31  | 20.10 |                        |             |
| 15              | 64QAM  | 1  | 0  | 20.10 | 20.31  | 20.02 | 21.5                   | 0           |
| 15              | 64QAM  | 1  | 37 | 20.14 | 20.06  | 20.14 |                        |             |
| 15              | 64QAM  | 1  | 74 | 20.04 | 20.10  | 19.85 |                        |             |
| 15              | 64QAM  | 36 | 0  | 20.05 | 20.13  | 19.97 | 21.5                   | 0           |
| 15              | 64QAM  | 36 | 20 | 19.95 | 20.10  | 20.00 |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.19 | 20.18  | 20.10 |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.20 | 20.30  | 20.23 | 20                     | 1.5         |
| 15              | 256QAM | 1  | 0  | 18.25 | 18.41  | 18.22 |                        |             |
| 15              | 256QAM | 1  | 37 | 18.22 | 18.45  | 18.30 |                        |             |
| 15              | 256QAM | 1  | 74 | 18.21 | 18.38  | 18.19 | 20                     | 1.5         |
| 15              | 256QAM | 36 | 0  | 18.35 | 18.41  | 18.34 |                        |             |
| 15              | 256QAM | 36 | 20 | 18.26 | 18.36  | 18.09 |                        |             |
| 15              | 256QAM | 36 | 39 | 18.15 | 18.30  | 18.21 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | 256QAM | 75 | 0  | 18.24 | 18.37  | 18.31 |                        |             |
| Channel         |        |    |    | 20000 | 20175  | 20350 |                        |             |
| Frequency (MHz) |        |    |    | 1715  | 1732.5 | 1750  | 21.5                   | 0           |
| 10              | QPSK   | 1  | 0  | 20.22 | 20.48  | 20.19 |                        |             |
| 10              | QPSK   | 1  | 25 | 20.31 | 20.42  | 20.28 |                        |             |
| 10              | QPSK   | 1  | 49 | 20.17 | 20.38  | 20.06 | 21.5                   | 0           |
| 10              | QPSK   | 25 | 0  | 20.15 | 20.37  | 19.99 |                        |             |
| 10              | QPSK   | 25 | 12 | 20.30 | 20.26  | 20.16 |                        |             |
| 10              | QPSK   | 25 | 25 | 20.09 | 20.20  | 20.00 | 21.5                   | 0           |
| 10              | QPSK   | 50 | 0  | 20.14 | 20.33  | 20.02 |                        |             |
| 10              | 16QAM  | 1  | 0  | 20.19 | 20.25  | 20.17 |                        |             |
| 10              | 16QAM  | 1  | 25 | 20.17 | 20.20  | 20.18 | 21.5                   | 0           |
| 10              | 16QAM  | 1  | 49 | 20.15 | 20.34  | 20.00 |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.27 | 20.35  | 20.02 |                        |             |
| 10              | 16QAM  | 25 | 12 | 20.16 | 20.41  | 20.04 | 21.5                   | 0           |
| 10              | 16QAM  | 25 | 25 | 20.21 | 20.33  | 20.24 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.12 | 20.24  | 20.08 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.17 | 20.35  | 20.04 | 21.5                   | 0           |
| 10              | 64QAM  | 1  | 25 | 20.13 | 20.07  | 20.16 |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.98 | 20.18  | 19.81 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.00 | 20.16  | 20.00 | 21.5                   | 0           |
| 10              | 64QAM  | 25 | 12 | 19.99 | 20.11  | 20.04 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.25 | 20.20  | 20.03 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.10 | 20.24  | 20.31 | 20                     | 1.5         |
| 10              | 256QAM | 1  | 0  | 18.29 | 18.44  | 18.26 |                        |             |
| 10              | 256QAM | 1  | 25 | 18.40 | 18.31  | 18.23 |                        |             |
| 10              | 256QAM | 1  | 49 | 18.31 | 18.37  | 18.19 | 20                     | 1.5         |
| 10              | 256QAM | 25 | 0  | 18.34 | 18.46  | 18.32 |                        |             |
| 10              | 256QAM | 25 | 12 | 18.29 | 18.34  | 18.19 |                        |             |
| 10              | 256QAM | 25 | 25 | 18.22 | 18.32  | 18.22 | 20                     | 1.5         |
| 10              | 256QAM | 50 | 0  | 18.24 | 18.37  | 18.34 |                        |             |

| Channel         |        |    |    | 19975  | 20175  | 20375  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 1712.5 | 1732.5 | 1752.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 20.26  | 20.47  | 20.13  | 21.5                   | 0           |
| 5               | QPSK   | 1  | 12 | 20.28  | 20.48  | 20.23  |                        |             |
| 5               | QPSK   | 1  | 24 | 20.15  | 20.32  | 20.11  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.11  | 20.33  | 19.99  | 21.5                   | 0           |
| 5               | QPSK   | 12 | 7  | 20.22  | 20.30  | 20.22  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.14  | 20.13  | 19.93  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.10  | 20.33  | 20.01  | 21.5                   | 0           |
| 5               | 16QAM  | 1  | 0  | 20.22  | 20.19  | 20.17  |                        |             |
| 5               | 16QAM  | 1  | 12 | 20.13  | 20.19  | 20.13  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.16  | 20.43  | 19.93  | 21.5                   | 0           |
| 5               | 16QAM  | 12 | 0  | 20.21  | 20.34  | 20.13  |                        |             |
| 5               | 16QAM  | 12 | 7  | 20.21  | 20.38  | 20.13  |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.16  | 20.30  | 20.24  | 21.5                   | 0           |
| 5               | 16QAM  | 25 | 0  | 20.04  | 20.24  | 20.03  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.11  | 20.32  | 20.01  |                        |             |
| 5               | 64QAM  | 1  | 12 | 20.12  | 20.09  | 20.12  | 21.5                   | 0           |
| 5               | 64QAM  | 1  | 24 | 20.08  | 20.19  | 19.87  |                        |             |
| 5               | 64QAM  | 12 | 0  | 19.98  | 20.15  | 19.96  |                        |             |
| 5               | 64QAM  | 12 | 7  | 19.88  | 20.11  | 20.05  | 21.5                   | 0           |
| 5               | 64QAM  | 12 | 13 | 20.22  | 20.19  | 20.09  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.13  | 20.29  | 20.31  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.34  | 18.55  | 18.25  | 20                     | 1.5         |
| 5               | 256QAM | 1  | 12 | 18.34  | 18.29  | 18.29  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.24  | 18.45  | 18.21  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.28  | 18.32  | 18.32  | 20                     | 1.5         |
| 5               | 256QAM | 12 | 7  | 18.22  | 18.32  | 18.12  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.24  | 18.27  | 18.20  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.23  | 18.46  | 18.17  | 20                     | 1.5         |
| Channel         |        |    |    | 19965  | 20175  | 20385  |                        |             |
| Frequency (MHz) |        |    |    | 1711.5 | 1732.5 | 1753.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 20.21  | 20.50  | 20.15  | 21.5                   | 0           |
| 3               | QPSK   | 1  | 8  | 20.31  | 20.47  | 20.23  |                        |             |
| 3               | QPSK   | 1  | 14 | 20.13  | 20.32  | 20.02  |                        |             |
| 3               | QPSK   | 8  | 0  | 20.11  | 20.36  | 20.00  | 21.5                   | 0           |
| 3               | QPSK   | 8  | 4  | 20.23  | 20.29  | 20.26  |                        |             |
| 3               | QPSK   | 8  | 7  | 20.08  | 20.18  | 20.00  |                        |             |
| 3               | QPSK   | 15 | 0  | 20.14  | 20.27  | 20.01  | 21.5                   | 0           |
| 3               | 16QAM  | 1  | 0  | 20.27  | 20.23  | 20.18  |                        |             |
| 3               | 16QAM  | 1  | 8  | 20.09  | 20.25  | 20.09  |                        |             |
| 3               | 16QAM  | 1  | 14 | 20.16  | 20.34  | 19.94  | 21.5                   | 0           |
| 3               | 16QAM  | 8  | 0  | 20.22  | 20.41  | 20.04  |                        |             |
| 3               | 16QAM  | 8  | 4  | 20.21  | 20.37  | 20.10  |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.19  | 20.39  | 20.26  | 21.5                   | 0           |
| 3               | 16QAM  | 15 | 0  | 20.15  | 20.28  | 20.05  |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.14  | 20.31  | 20.00  |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 3               | 64QAM  | 1  | 8  | 20.12  | 20.07  | 20.13  |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.02  | 20.13  | 19.80  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.06  | 20.11  | 20.08  |                        |             |
| 3               | 64QAM  | 8  | 4  | 19.91  | 20.11  | 20.09  | 21.5                   | 0           |
| 3               | 64QAM  | 8  | 7  | 20.20  | 20.17  | 20.01  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.09  | 20.34  | 20.30  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.33  | 18.35  | 18.33  | 20                     | 1.5         |
| 3               | 256QAM | 1  | 8  | 18.27  | 18.36  | 18.33  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.25  | 18.34  | 18.24  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.38  | 18.41  | 18.35  | 20                     | 1.5         |
| 3               | 256QAM | 8  | 4  | 18.25  | 18.36  | 18.25  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.23  | 18.24  | 18.31  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.23  | 18.48  | 18.31  |                        |             |
| Channel         |        |    |    | 19957  | 20175  | 20393  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1710.7 | 1732.5 | 1754.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 20.27  | 20.52  | 20.20  | 21.5                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 20.36  | 20.41  | 20.23  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 20.12  | 20.38  | 20.10  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 20.15  | 20.34  | 20.04  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 20.28  | 20.31  | 20.24  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 20.03  | 20.18  | 19.98  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 20.17  | 20.27  | 20.03  | 21.5                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 20.22  | 20.19  | 20.23  | 21.5                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 20.16  | 20.28  | 20.16  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 20.19  | 20.44  | 19.93  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 20.27  | 20.39  | 20.03  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 20.17  | 20.38  | 20.02  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 20.15  | 20.33  | 20.23  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 20.03  | 20.30  | 20.14  | 21.5                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 20.10  | 20.39  | 19.98  | 21.5                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 20.15  | 20.10  | 20.10  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 20.01  | 20.17  | 19.80  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 20.09  | 20.11  | 20.03  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 19.92  | 20.19  | 20.04  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 20.25  | 20.18  | 19.99  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.14  | 20.30  | 20.31  | 21.5                   | 0           |
| 1.4             | 256QAM | 1  | 0  | 18.27  | 18.35  | 18.18  | 20                     | 1.5         |
| 1.4             | 256QAM | 1  | 3  | 18.23  | 18.35  | 18.26  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.32  | 18.34  | 18.37  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.14  | 18.32  | 18.15  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.30  | 18.36  | 18.26  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.32  | 18.38  | 18.20  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.19  | 18.40  | 18.37  | 20                     | 1.5         |

| Band 66 Ant5 DSI4 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 132072                | 132322                   | 132572                 |                     |          |
| Frequency (MHz)   |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |
| 20                | QPSK       | 1       | 0         | 20.43                 | 20.65                    | 20.28                  | 21.5                | 0        |
| 20                | QPSK       | 1       | 49        | 20.48                 | 20.55                    | 20.37                  |                     |          |
| 20                | QPSK       | 1       | 99        | 20.30                 | 20.47                    | 20.29                  |                     |          |
| 20                | QPSK       | 50      | 0         | 20.30                 | 20.53                    | 20.15                  | 21.5                | 0        |
| 20                | QPSK       | 50      | 24        | 20.37                 | 20.46                    | 20.34                  |                     |          |
| 20                | QPSK       | 50      | 50        | 20.27                 | 20.38                    | 20.16                  |                     |          |
| 20                | QPSK       | 100     | 0         | 20.30                 | 20.51                    | 20.17                  | 21.5                | 0        |
| 20                | 16QAM      | 1       | 0         | 20.42                 | 20.44                    | 20.35                  |                     |          |
| 20                | 16QAM      | 1       | 49        | 20.23                 | 20.39                    | 20.25                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 20.31                 | 20.53                    | 20.16                  | 21.5                | 0        |
| 20                | 16QAM      | 50      | 0         | 20.38                 | 20.55                    | 20.23                  |                     |          |
| 20                | 16QAM      | 50      | 24        | 20.30                 | 20.59                    | 20.25                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 20.36                 | 20.52                    | 20.34                  | 21.5                | 0        |
| 20                | 16QAM      | 100     | 0         | 20.20                 | 20.42                    | 20.23                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 20.26                 | 20.45                    | 20.13                  |                     |          |
| 20                | 64QAM      | 1       | 49        | 20.34                 | 20.33                    | 20.27                  | 21.5                | 0        |
| 20                | 64QAM      | 1       | 99        | 20.24                 | 20.26                    | 20.04                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 20.19                 | 20.33                    | 20.17                  |                     |          |
| 20                | 64QAM      | 50      | 24        | 20.10                 | 20.31                    | 20.25                  | 21.5                | 0        |
| 20                | 64QAM      | 50      | 50        | 20.29                 | 20.33                    | 20.21                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 20.32                 | 20.42                    | 20.37                  |                     |          |
| 20                | 256QAM     | 1       | 0         | 18.38                 | 18.42                    | 18.30                  | 20                  | 1.5      |
| 20                | 256QAM     | 1       | 49        | 18.39                 | 18.43                    | 18.34                  |                     |          |
| 20                | 256QAM     | 1       | 99        | 18.30                 | 18.31                    | 18.23                  |                     |          |
| 20                | 256QAM     | 50      | 0         | 18.34                 | 18.32                    | 18.27                  | 20                  | 1.5      |
| 20                | 256QAM     | 50      | 24        | 18.14                 | 18.35                    | 18.14                  |                     |          |
| 20                | 256QAM     | 50      | 50        | 18.19                 | 18.26                    | 18.21                  |                     |          |
| 20                | 256QAM     | 100     | 0         | 18.37                 | 18.36                    | 18.29                  | 21.5                | 0        |
| Channel           |            |         |           | 132047                | 132322                   | 132597                 |                     |          |
| Frequency (MHz)   |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |
| 15                | QPSK       | 1       | 0         | 20.37                 | 20.59                    | 20.16                  | 21.5                | 0        |
| 15                | QPSK       | 1       | 37        | 20.36                 | 20.48                    | 20.25                  |                     |          |
| 15                | QPSK       | 1       | 74        | 20.22                 | 20.35                    | 20.25                  |                     |          |
| 15                | QPSK       | 36      | 0         | 20.18                 | 20.40                    | 20.09                  | 21.5                | 0        |
| 15                | QPSK       | 36      | 20        | 20.29                 | 20.43                    | 20.29                  |                     |          |
| 15                | QPSK       | 36      | 39        | 20.22                 | 20.28                    | 20.13                  |                     |          |
| 15                | QPSK       | 75      | 0         | 20.21                 | 20.40                    | 20.08                  | 21.5                | 0        |
| 15                | 16QAM      | 1       | 0         | 20.35                 | 20.34                    | 20.26                  |                     |          |
| 15                | 16QAM      | 1       | 37        | 20.20                 | 20.32                    | 20.20                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 20.22                 | 20.44                    | 20.08                  | 21.5                | 0        |
| 15                | 16QAM      | 36      | 0         | 20.25                 | 20.50                    | 20.15                  |                     |          |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 20.20  | 20.56  | 20.12  |                        |             |
| 15              | 16QAM  | 36 | 39 | 20.25  | 20.40  | 20.31  |                        |             |
| 15              | 16QAM  | 75 | 0  | 20.08  | 20.34  | 20.13  |                        |             |
| 15              | 64QAM  | 1  | 0  | 20.17  | 20.31  | 20.01  | 21.5                   | 0           |
| 15              | 64QAM  | 1  | 37 | 20.31  | 20.21  | 20.14  |                        |             |
| 15              | 64QAM  | 1  | 74 | 20.11  | 20.21  | 19.93  |                        |             |
| 15              | 64QAM  | 36 | 0  | 20.15  | 20.22  | 20.18  | 21.5                   | 0           |
| 15              | 64QAM  | 36 | 20 | 20.14  | 20.21  | 20.03  |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.09  | 20.28  | 20.14  |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.15  | 20.20  | 20.15  | 20                     | 1.5         |
| 15              | 256QAM | 1  | 0  | 18.12  | 18.35  | 18.11  |                        |             |
| 15              | 256QAM | 1  | 37 | 18.14  | 18.33  | 18.21  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.15  | 18.30  | 18.04  | 20                     | 1.5         |
| 15              | 256QAM | 36 | 0  | 18.28  | 18.28  | 18.21  |                        |             |
| 15              | 256QAM | 36 | 20 | 18.15  | 18.29  | 18.29  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.06  | 18.25  | 18.07  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | 256QAM | 75 | 0  | 18.19  | 18.32  | 18.26  |                        |             |
| Channel         |        |    |    | 132022 | 132322 | 132622 |                        |             |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   | 21.5                   | 0           |
| 10              | QPSK   | 1  | 0  | 20.31  | 20.60  | 20.15  |                        |             |
| 10              | QPSK   | 1  | 25 | 20.43  | 20.45  | 20.34  |                        |             |
| 10              | QPSK   | 1  | 49 | 20.20  | 20.43  | 20.22  | 21.5                   | 0           |
| 10              | QPSK   | 25 | 0  | 20.24  | 20.51  | 20.10  |                        |             |
| 10              | QPSK   | 25 | 12 | 20.29  | 20.41  | 20.27  |                        |             |
| 10              | QPSK   | 25 | 25 | 20.25  | 20.35  | 20.06  | 21.5                   | 0           |
| 10              | QPSK   | 50 | 0  | 20.26  | 20.39  | 20.06  |                        |             |
| 10              | 16QAM  | 1  | 0  | 20.32  | 20.37  | 20.24  |                        |             |
| 10              | 16QAM  | 1  | 25 | 20.20  | 20.29  | 20.22  | 21.5                   | 0           |
| 10              | 16QAM  | 1  | 49 | 20.22  | 20.43  | 20.11  |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.36  | 20.48  | 20.11  | 21.5                   | 0           |
| 10              | 16QAM  | 25 | 12 | 20.20  | 20.49  | 20.17  |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.26  | 20.41  | 20.27  |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.17  | 20.32  | 20.14  | 21.5                   | 0           |
| 10              | 64QAM  | 1  | 0  | 20.12  | 20.34  | 20.02  |                        |             |
| 10              | 64QAM  | 1  | 25 | 20.23  | 20.23  | 20.18  |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.17  | 20.22  | 19.92  | 21.5                   | 0           |
| 10              | 64QAM  | 25 | 0  | 20.03  | 20.09  | 20.07  |                        |             |
| 10              | 64QAM  | 25 | 12 | 20.11  | 20.17  | 20.14  |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.00  | 20.20  | 20.17  | 20                     | 1.5         |
| 10              | 64QAM  | 50 | 0  | 20.17  | 20.22  | 20.18  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.18  | 18.40  | 18.13  |                        |             |
| 10              | 256QAM | 1  | 25 | 18.30  | 18.18  | 18.10  | 20                     | 1.5         |
| 10              | 256QAM | 1  | 49 | 18.18  | 18.28  | 18.07  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.24  | 18.34  | 18.22  |                        |             |
| 10              | 256QAM | 25 | 12 | 18.14  | 18.27  | 18.04  | 20                     | 1.5         |
| 10              | 256QAM | 25 | 25 | 18.14  | 18.25  | 18.11  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.14  | 18.21  | 18.26  |                        |             |

| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 20.29  | 20.59  | 20.21  | 21.5                   | 0           |
| 5               | QPSK   | 1  | 12 | 20.46  | 20.46  | 20.30  |                        |             |
| 5               | QPSK   | 1  | 24 | 20.20  | 20.45  | 20.22  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.18  | 20.46  | 20.11  | 21.5                   | 0           |
| 5               | QPSK   | 12 | 7  | 20.29  | 20.36  | 20.26  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.23  | 20.30  | 20.06  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.23  | 20.41  | 20.11  | 21.5                   | 0           |
| 5               | 16QAM  | 1  | 0  | 20.40  | 20.31  | 20.22  |                        |             |
| 5               | 16QAM  | 1  | 12 | 20.20  | 20.33  | 20.23  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.23  | 20.47  | 20.10  | 21.5                   | 0           |
| 5               | 16QAM  | 12 | 0  | 20.33  | 20.41  | 20.17  |                        |             |
| 5               | 16QAM  | 12 | 7  | 20.27  | 20.49  | 20.15  |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.33  | 20.38  | 20.24  | 21.5                   | 0           |
| 5               | 16QAM  | 25 | 0  | 20.16  | 20.36  | 20.16  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.23  | 20.36  | 20.09  |                        |             |
| 5               | 64QAM  | 1  | 12 | 20.30  | 20.24  | 20.23  | 21.5                   | 0           |
| 5               | 64QAM  | 1  | 24 | 20.11  | 20.20  | 19.97  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.07  | 20.16  | 20.21  |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.12  | 20.23  | 20.07  | 21.5                   | 0           |
| 5               | 64QAM  | 12 | 13 | 20.17  | 20.14  | 20.05  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.17  | 20.22  | 20.25  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.22  | 18.40  | 18.19  | 20                     | 1.5         |
| 5               | 256QAM | 1  | 12 | 18.26  | 18.21  | 18.19  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.17  | 18.41  | 18.08  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.18  | 18.17  | 18.25  | 20                     | 1.5         |
| 5               | 256QAM | 12 | 7  | 18.14  | 18.28  | 18.01  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.14  | 18.18  | 18.07  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.11  | 18.41  | 18.11  | 20                     | 1.5         |
| Channel         |        |    |    | 131987 | 132322 | 132657 |                        |             |
| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 20.34  | 20.57  | 20.23  | 21.5                   | 0           |
| 3               | QPSK   | 1  | 8  | 20.38  | 20.52  | 20.33  |                        |             |
| 3               | QPSK   | 1  | 14 | 20.23  | 20.44  | 20.27  |                        |             |
| 3               | QPSK   | 8  | 0  | 20.18  | 20.40  | 20.10  | 21.5                   | 0           |
| 3               | QPSK   | 8  | 4  | 20.33  | 20.42  | 20.27  |                        |             |
| 3               | QPSK   | 8  | 7  | 20.23  | 20.33  | 20.09  |                        |             |
| 3               | QPSK   | 15 | 0  | 20.19  | 20.39  | 20.10  | 21.5                   | 0           |
| 3               | 16QAM  | 1  | 0  | 20.38  | 20.36  | 20.25  |                        |             |
| 3               | 16QAM  | 1  | 8  | 20.10  | 20.37  | 20.13  |                        |             |
| 3               | 16QAM  | 1  | 14 | 20.21  | 20.44  | 20.09  | 21.5                   | 0           |
| 3               | 16QAM  | 8  | 0  | 20.27  | 20.50  | 20.16  |                        |             |
| 3               | 16QAM  | 8  | 4  | 20.20  | 20.50  | 20.20  |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.26  | 20.42  | 20.21  | 21.5                   | 0           |
| 3               | 16QAM  | 15 | 0  | 20.09  | 20.36  | 20.09  |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.12  | 20.40  | 20.04  |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 3               | 64QAM  | 1  | 8  | 20.32  | 20.30  | 20.22  |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.16  | 20.18  | 19.95  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.01  | 20.23  | 20.10  |                        |             |
| 3               | 64QAM  | 8  | 4  | 20.16  | 20.24  | 20.06  | 21.5                   | 0           |
| 3               | 64QAM  | 8  | 7  | 20.19  | 20.25  | 20.13  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.08  | 20.19  | 20.17  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.20  | 18.28  | 18.25  | 20                     | 1.5         |
| 3               | 256QAM | 1  | 8  | 18.11  | 18.22  | 18.22  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.18  | 18.24  | 18.12  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.27  | 18.29  | 18.20  | 20                     | 1.5         |
| 3               | 256QAM | 8  | 4  | 18.15  | 18.22  | 18.12  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.15  | 18.09  | 18.24  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.12  | 18.36  | 18.16  |                        |             |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 20.30  | 20.60  | 20.26  | 21.5                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 20.36  | 20.52  | 20.32  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 20.19  | 20.40  | 20.26  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 20.37  | 20.52  | 20.19  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 20.36  | 20.42  | 20.31  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 20.23  | 20.37  | 20.24  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 20.20  | 20.49  | 20.11  | 21.5                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 20.34  | 20.36  | 20.25  | 21.5                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 20.19  | 20.28  | 20.09  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 20.19  | 20.48  | 20.05  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 20.29  | 20.40  | 20.24  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 20.16  | 20.35  | 20.16  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 20.23  | 20.43  | 20.14  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 20.33  | 20.42  | 20.14  | 21.5                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 20.25  | 20.48  | 20.16  | 21.5                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 20.26  | 20.42  | 20.26  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 20.14  | 20.34  | 20.15  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 20.24  | 20.41  | 20.06  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 20.20  | 20.22  | 20.16  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 20.11  | 20.16  | 19.91  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.08  | 20.39  | 20.18  | 21.5                   | 0           |
| 1.4             | 256QAM | 1  | 0  | 18.41  | 18.49  | 18.38  | 20                     | 1.5         |
| 1.4             | 256QAM | 1  | 3  | 18.41  | 18.53  | 18.49  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.55  | 18.49  | 18.56  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.30  | 18.55  | 18.31  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.51  | 18.54  | 18.48  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.54  | 18.59  | 18.38  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.44  | 18.58  | 18.52  | 20                     | 1.5         |

### Reduced Power Mode for DSI 5

| Band 5 Ant0 DSI5 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 20450                 | 20525                    | 20600                  |                     |          |
| Frequency (MHz)  |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10               | QPSK       | 1       | 0         | 23.00                 | 23.10                    | 23.09                  | 24.5                | 0        |
| 10               | QPSK       | 1       | 25        | 23.05                 | 23.05                    | 23.05                  |                     |          |
| 10               | QPSK       | 1       | 49        | 23.09                 | 23.05                    | 23.01                  |                     |          |
| 10               | QPSK       | 25      | 0         | 22.78                 | 22.83                    | 22.81                  | 24                  | 0.5      |
| 10               | QPSK       | 25      | 12        | 22.62                 | 22.61                    | 22.51                  |                     |          |
| 10               | QPSK       | 25      | 25        | 22.73                 | 22.71                    | 22.71                  |                     |          |
| 10               | QPSK       | 50      | 0         | 22.75                 | 22.81                    | 22.80                  | 24                  | 0.5      |
| 10               | 16QAM      | 1       | 0         | 23.05                 | 23.07                    | 23.08                  |                     |          |
| 10               | 16QAM      | 1       | 25        | 22.87                 | 22.94                    | 22.89                  |                     |          |
| 10               | 16QAM      | 1       | 49        | 22.97                 | 22.91                    | 23.01                  | 23                  | 1.5      |
| 10               | 16QAM      | 25      | 0         | 21.81                 | 21.78                    | 21.71                  |                     |          |
| 10               | 16QAM      | 25      | 12        | 21.58                 | 21.61                    | 21.63                  |                     |          |
| 10               | 16QAM      | 25      | 25        | 21.77                 | 21.72                    | 21.65                  | 23                  | 1.5      |
| 10               | 16QAM      | 50      | 0         | 21.65                 | 21.65                    | 21.62                  |                     |          |
| 10               | 64QAM      | 1       | 0         | 21.84                 | 21.80                    | 21.73                  |                     |          |
| 10               | 64QAM      | 1       | 25        | 21.90                 | 21.81                    | 21.83                  | 22                  | 2.5      |
| 10               | 64QAM      | 1       | 49        | 21.76                 | 21.76                    | 21.75                  |                     |          |
| 10               | 64QAM      | 25      | 0         | 21.91                 | 21.82                    | 21.72                  |                     |          |
| 10               | 64QAM      | 25      | 12        | 21.79                 | 21.76                    | 21.78                  | 20                  | 4.5      |
| 10               | 64QAM      | 25      | 25        | 21.70                 | 21.69                    | 21.70                  |                     |          |
| 10               | 64QAM      | 50      | 0         | 21.71                 | 21.74                    | 21.76                  |                     |          |
| 10               | 256QAM     | 1       | 0         | 18.64                 | 18.67                    | 18.64                  | 20                  | 4.5      |
| 10               | 256QAM     | 1       | 25        | 18.51                 | 18.61                    | 18.65                  |                     |          |
| 10               | 256QAM     | 1       | 49        | 18.52                 | 18.54                    | 18.62                  |                     |          |
| 10               | 256QAM     | 25      | 0         | 18.74                 | 18.76                    | 18.66                  | 20                  | 4.5      |
| 10               | 256QAM     | 25      | 12        | 18.61                 | 18.69                    | 18.76                  |                     |          |
| 10               | 256QAM     | 25      | 25        | 18.71                 | 18.71                    | 18.80                  |                     |          |
| 10               | 256QAM     | 50      | 0         | 18.62                 | 18.65                    | 18.61                  | 23                  | 1.5      |
| Channel          |            |         |           | 20425                 | 20525                    | 20625                  |                     |          |
| Frequency (MHz)  |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |          |
| 5                | QPSK       | 1       | 0         | 23.05                 | 23.05                    | 22.98                  | 24.5                | 0        |
| 5                | QPSK       | 1       | 12        | 23.05                 | 23.06                    | 23.03                  |                     |          |
| 5                | QPSK       | 1       | 24        | 23.06                 | 22.98                    | 23.02                  |                     |          |
| 5                | QPSK       | 12      | 0         | 22.79                 | 22.64                    | 22.73                  | 24                  | 0.5      |
| 5                | QPSK       | 12      | 7         | 22.57                 | 22.49                    | 22.35                  |                     |          |
| 5                | QPSK       | 12      | 13        | 22.61                 | 22.60                    | 22.61                  |                     |          |
| 5                | QPSK       | 25      | 0         | 22.59                 | 22.68                    | 22.68                  | 24                  | 0.5      |
| 5                | 16QAM      | 1       | 0         | 22.95                 | 23.02                    | 22.95                  |                     |          |
| 5                | 16QAM      | 1       | 12        | 22.76                 | 22.87                    | 22.76                  |                     |          |
| 5                | 16QAM      | 1       | 24        | 22.94                 | 22.88                    | 22.89                  | 23                  | 1.5      |
| 5                | 16QAM      | 12      | 0         | 21.67                 | 21.62                    | 21.69                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 5               | 16QAM  | 12 | 7  | 21.43 | 21.53 | 21.45 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.60 | 21.60 | 21.61 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.61 | 21.47 | 21.56 |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.79 | 21.67 | 21.63 | 23                     | 1.5         |
| 5               | 64QAM  | 1  | 12 | 21.80 | 21.70 | 21.67 |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.66 | 21.65 | 21.63 |                        |             |
| 5               | 64QAM  | 12 | 0  | 21.81 | 21.68 | 21.59 | 22                     | 2.5         |
| 5               | 64QAM  | 12 | 7  | 21.65 | 21.63 | 21.66 |                        |             |
| 5               | 64QAM  | 12 | 13 | 21.52 | 21.65 | 21.66 |                        |             |
| 5               | 64QAM  | 25 | 0  | 21.61 | 21.61 | 21.61 |                        |             |
| 5               | 256QAM | 1  | 0  | 18.50 | 18.65 | 18.47 | 20                     | 4.5         |
| 5               | 256QAM | 1  | 12 | 18.41 | 18.56 | 18.56 |                        |             |
| 5               | 256QAM | 1  | 24 | 18.48 | 18.40 | 18.56 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.70 | 18.67 | 18.53 | 20                     | 4.5         |
| 5               | 256QAM | 12 | 7  | 18.56 | 18.63 | 18.62 |                        |             |
| 5               | 256QAM | 12 | 13 | 18.69 | 18.56 | 18.66 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.53 | 18.49 | 18.54 |                        |             |
| Channel         |        |    |    | 20415 | 20525 | 20635 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 825.5 | 836.5 | 847.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 23.00 | 23.05 | 23.08 | 24.5                   | 0           |
| 3               | QPSK   | 1  | 8  | 23.01 | 23.08 | 22.98 |                        |             |
| 3               | QPSK   | 1  | 14 | 23.05 | 23.00 | 23.03 |                        |             |
| 3               | QPSK   | 8  | 0  | 22.80 | 22.72 | 22.72 | 24                     | 0.5         |
| 3               | QPSK   | 8  | 4  | 22.59 | 22.47 | 22.40 |                        |             |
| 3               | QPSK   | 8  | 7  | 22.63 | 22.62 | 22.59 |                        |             |
| 3               | QPSK   | 15 | 0  | 22.67 | 22.68 | 22.64 |                        |             |
| 3               | 16QAM  | 1  | 0  | 23.01 | 22.95 | 22.92 | 24                     | 0.5         |
| 3               | 16QAM  | 1  | 8  | 22.69 | 22.80 | 22.76 |                        |             |
| 3               | 16QAM  | 1  | 14 | 22.92 | 22.81 | 22.96 |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.63 | 21.68 | 21.60 | 23                     | 1.5         |
| 3               | 16QAM  | 8  | 4  | 21.42 | 21.55 | 21.50 |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.63 | 21.66 | 21.57 |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.53 | 21.49 | 21.58 |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.79 | 21.71 | 21.57 | 23                     | 1.5         |
| 3               | 64QAM  | 1  | 8  | 21.87 | 21.73 | 21.69 |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.65 | 21.64 | 21.68 |                        |             |
| 3               | 64QAM  | 8  | 0  | 21.88 | 21.74 | 21.57 | 22                     | 2.5         |
| 3               | 64QAM  | 8  | 4  | 21.61 | 21.67 | 21.63 |                        |             |
| 3               | 64QAM  | 8  | 7  | 21.55 | 21.66 | 21.58 |                        |             |
| 3               | 64QAM  | 15 | 0  | 21.62 | 21.67 | 21.72 |                        |             |
| 3               | 256QAM | 1  | 0  | 18.58 | 18.60 | 18.57 | 20                     | 4.5         |
| 3               | 256QAM | 1  | 8  | 18.37 | 18.57 | 18.53 |                        |             |
| 3               | 256QAM | 1  | 14 | 18.36 | 18.37 | 18.52 |                        |             |
| 3               | 256QAM | 8  | 0  | 18.65 | 18.66 | 18.49 | 20                     | 4.5         |
| 3               | 256QAM | 8  | 4  | 18.46 | 18.52 | 18.62 |                        |             |
| 3               | 256QAM | 8  | 7  | 18.59 | 18.62 | 18.71 |                        |             |
| 3               | 256QAM | 15 | 0  | 18.56 | 18.53 | 18.49 |                        |             |

| Channel         |        |   |   | 20407 | 20525 | 20643 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|---|---|-------|-------|-------|------------------------|-------------|
| Frequency (MHz) |        |   |   | 824.7 | 836.5 | 848.3 |                        |             |
| 1.4             | QPSK   | 1 | 0 | 23.06 | 23.05 | 23.01 | 24.5                   | 0           |
| 1.4             | QPSK   | 1 | 3 | 23.06 | 23.04 | 23.07 |                        |             |
| 1.4             | QPSK   | 1 | 5 | 23.01 | 22.92 | 22.98 |                        |             |
| 1.4             | QPSK   | 3 | 0 | 23.04 | 23.06 | 23.02 |                        |             |
| 1.4             | QPSK   | 3 | 1 | 23.06 | 23.03 | 23.03 |                        |             |
| 1.4             | QPSK   | 3 | 3 | 23.01 | 23.02 | 22.98 |                        |             |
| 1.4             | QPSK   | 6 | 0 | 22.71 | 22.68 | 22.69 | 24                     | 0.5         |
| 1.4             | 16QAM  | 1 | 0 | 22.48 | 22.54 | 22.46 | 24                     | 0.5         |
| 1.4             | 16QAM  | 1 | 3 | 22.64 | 22.60 | 22.60 |                        |             |
| 1.4             | 16QAM  | 1 | 5 | 22.60 | 22.59 | 22.68 |                        |             |
| 1.4             | 16QAM  | 3 | 0 | 22.99 | 22.90 | 23.06 |                        |             |
| 1.4             | 16QAM  | 3 | 1 | 22.81 | 22.92 | 22.73 |                        |             |
| 1.4             | 16QAM  | 3 | 3 | 22.82 | 22.87 | 22.91 |                        |             |
| 1.4             | 16QAM  | 6 | 0 | 21.64 | 21.62 | 21.66 | 23                     | 1.5         |
| 1.4             | 64QAM  | 1 | 0 | 21.52 | 21.53 | 21.52 | 23                     | 1.5         |
| 1.4             | 64QAM  | 1 | 3 | 21.62 | 21.69 | 21.56 |                        |             |
| 1.4             | 64QAM  | 1 | 5 | 21.61 | 21.62 | 21.50 |                        |             |
| 1.4             | 64QAM  | 3 | 0 | 21.81 | 21.72 | 21.56 |                        |             |
| 1.4             | 64QAM  | 3 | 1 | 21.87 | 21.68 | 21.67 |                        |             |
| 1.4             | 64QAM  | 3 | 3 | 21.65 | 21.69 | 21.62 |                        |             |
| 1.4             | 64QAM  | 6 | 0 | 21.82 | 21.73 | 21.66 | 22                     | 2.5         |
| 1.4             | 256QAM | 1 | 0 | 18.44 | 18.59 | 18.67 | 20                     | 4.5         |
| 1.4             | 256QAM | 1 | 3 | 18.55 | 18.59 | 18.76 |                        |             |
| 1.4             | 256QAM | 1 | 5 | 18.51 | 18.59 | 18.56 |                        |             |
| 1.4             | 256QAM | 3 | 0 | 18.52 | 18.58 | 18.51 |                        |             |
| 1.4             | 256QAM | 3 | 1 | 18.45 | 18.52 | 18.61 |                        |             |
| 1.4             | 256QAM | 3 | 3 | 18.61 | 18.58 | 18.68 |                        |             |
| 1.4             | 256QAM | 6 | 0 | 18.47 | 18.51 | 18.54 | 20                     | 4.5         |

| Band 12 Ant0 DSI5 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 23060                    | 23095                       | 23130                     |                        |             |
| Frequency (MHz)   |            |         |           | 704                      | 707.5                       | 711                       |                        |             |
| 10                | QPSK       | 1       | 0         | 23.65                    | 23.89                       | 23.76                     | 25                     | 0           |
| 10                | QPSK       | 1       | 25        | 23.79                    | 23.84                       | 23.84                     |                        |             |
| 10                | QPSK       | 1       | 49        | 23.85                    | 23.79                       | 23.76                     |                        |             |
| 10                | QPSK       | 25      | 0         | 22.77                    | 22.85                       | 22.83                     | 24                     | 1           |
| 10                | QPSK       | 25      | 12        | 22.73                    | 22.80                       | 22.80                     |                        |             |
| 10                | QPSK       | 25      | 25        | 22.69                    | 22.73                       | 22.75                     |                        |             |
| 10                | QPSK       | 50      | 0         | 22.64                    | 22.81                       | 22.73                     |                        |             |
| 10                | 16QAM      | 1       | 0         | 23.28                    | 23.22                       | 23.14                     | 24                     | 1           |
| 10                | 16QAM      | 1       | 25        | 23.03                    | 23.04                       | 23.01                     |                        |             |
| 10                | 16QAM      | 1       | 49        | 23.15                    | 23.13                       | 23.07                     |                        |             |
| 10                | 16QAM      | 25      | 0         | 21.72                    | 21.70                       | 21.72                     | 23                     | 2           |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 25 | 12 | 21.50 | 21.56 | 21.53 |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.59 | 21.69 | 21.71 |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.45 | 21.53 | 21.43 |                        |             |
| 10              | 64QAM  | 1  | 0  | 22.11 | 22.16 | 22.25 | 23                     | 2           |
| 10              | 64QAM  | 1  | 25 | 22.16 | 22.12 | 22.22 |                        |             |
| 10              | 64QAM  | 1  | 49 | 22.15 | 22.09 | 22.04 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.72 | 20.74 | 20.83 | 22                     | 3           |
| 10              | 64QAM  | 25 | 12 | 20.78 | 20.73 | 20.66 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.84 | 20.85 | 20.91 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.80 | 20.79 | 20.79 |                        |             |
| 10              | 256QAM | 1  | 0  | 19.41 | 19.34 | 19.38 | 20                     | 5           |
| 10              | 256QAM | 1  | 25 | 19.20 | 19.29 | 19.32 |                        |             |
| 10              | 256QAM | 1  | 49 | 19.41 | 19.40 | 19.31 |                        |             |
| 10              | 256QAM | 25 | 0  | 18.88 | 18.94 | 19.00 | 20                     | 5           |
| 10              | 256QAM | 25 | 12 | 18.90 | 18.85 | 18.75 |                        |             |
| 10              | 256QAM | 25 | 25 | 18.97 | 18.87 | 18.94 |                        |             |
| 10              | 256QAM | 50 | 0  | 18.82 | 18.87 | 18.95 |                        |             |
| Channel         |        |    |    | 23035 | 23095 | 23155 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 701.5 | 707.5 | 713.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.60 | 23.76 | 23.67 | 25                     | 0           |
| 5               | QPSK   | 1  | 12 | 23.64 | 23.75 | 23.70 |                        |             |
| 5               | QPSK   | 1  | 24 | 23.79 | 23.71 | 23.59 |                        |             |
| 5               | QPSK   | 12 | 0  | 22.69 | 22.63 | 22.80 | 24                     | 1           |
| 5               | QPSK   | 12 | 7  | 22.70 | 22.70 | 22.71 |                        |             |
| 5               | QPSK   | 12 | 13 | 22.64 | 22.60 | 22.63 |                        |             |
| 5               | QPSK   | 25 | 0  | 22.59 | 22.60 | 22.71 |                        |             |
| 5               | 16QAM  | 1  | 0  | 23.24 | 23.08 | 23.04 | 24                     | 1           |
| 5               | 16QAM  | 1  | 12 | 22.87 | 22.86 | 22.99 |                        |             |
| 5               | 16QAM  | 1  | 24 | 23.05 | 23.07 | 22.94 |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.61 | 21.61 | 21.55 | 23                     | 2           |
| 5               | 16QAM  | 12 | 7  | 21.41 | 21.54 | 21.45 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.55 | 21.58 | 21.59 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.40 | 21.49 | 21.40 |                        |             |
| 5               | 64QAM  | 1  | 0  | 22.03 | 22.01 | 22.15 | 23                     | 2           |
| 5               | 64QAM  | 1  | 12 | 22.07 | 21.98 | 22.14 |                        |             |
| 5               | 64QAM  | 1  | 24 | 22.12 | 22.05 | 21.99 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.66 | 20.58 | 20.68 | 22                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.66 | 20.57 | 20.61 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.66 | 20.82 | 20.75 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.65 | 20.76 | 20.66 |                        |             |
| 5               | 256QAM | 1  | 0  | 19.31 | 19.19 | 19.21 | 20                     | 5           |
| 5               | 256QAM | 1  | 12 | 19.13 | 19.15 | 19.27 |                        |             |
| 5               | 256QAM | 1  | 24 | 19.32 | 19.24 | 19.24 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.82 | 18.84 | 18.96 | 20                     | 5           |
| 5               | 256QAM | 12 | 7  | 18.77 | 18.78 | 18.59 |                        |             |
| 5               | 256QAM | 12 | 13 | 18.92 | 18.81 | 18.86 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.66 | 18.73 | 18.77 |                        |             |

| Channel         |        |    |    | 23025 | 23095 | 23165 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 700.5 | 707.5 | 714.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 23.48 | 23.71 | 23.70 | 25                     | 0           |
| 3               | QPSK   | 1  | 8  | 23.74 | 23.68 | 23.66 |                        |             |
| 3               | QPSK   | 1  | 14 | 23.73 | 23.63 | 23.61 |                        |             |
| 3               | QPSK   | 8  | 0  | 22.71 | 22.65 | 22.72 | 24                     | 1           |
| 3               | QPSK   | 8  | 4  | 22.62 | 22.74 | 22.76 |                        |             |
| 3               | QPSK   | 8  | 7  | 22.52 | 22.70 | 22.58 |                        |             |
| 3               | QPSK   | 15 | 0  | 22.56 | 22.55 | 22.61 | 24                     | 1           |
| 3               | 16QAM  | 1  | 0  | 23.16 | 23.04 | 23.09 |                        |             |
| 3               | 16QAM  | 1  | 8  | 22.86 | 22.96 | 22.99 |                        |             |
| 3               | 16QAM  | 1  | 14 | 23.13 | 22.95 | 22.96 | 23                     | 2           |
| 3               | 16QAM  | 8  | 0  | 21.66 | 21.55 | 21.56 |                        |             |
| 3               | 16QAM  | 8  | 4  | 21.36 | 21.45 | 21.46 |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.46 | 21.56 | 21.57 | 22                     | 3           |
| 3               | 16QAM  | 15 | 0  | 21.37 | 21.48 | 21.36 |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.98 | 22.10 | 22.18 |                        |             |
| 3               | 64QAM  | 1  | 8  | 22.08 | 22.10 | 22.19 | 23                     | 2           |
| 3               | 64QAM  | 1  | 14 | 21.97 | 22.01 | 21.99 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.67 | 20.61 | 20.66 |                        |             |
| 3               | 64QAM  | 8  | 4  | 20.62 | 20.58 | 20.55 | 22                     | 3           |
| 3               | 64QAM  | 8  | 7  | 20.75 | 20.79 | 20.76 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.76 | 20.68 | 20.63 |                        |             |
| 3               | 256QAM | 1  | 0  | 19.31 | 19.29 | 19.34 | 20                     | 5           |
| 3               | 256QAM | 1  | 8  | 19.10 | 19.17 | 19.16 |                        |             |
| 3               | 256QAM | 1  | 14 | 19.38 | 19.23 | 19.13 |                        |             |
| 3               | 256QAM | 8  | 0  | 18.80 | 18.90 | 18.95 | 20                     | 5           |
| 3               | 256QAM | 8  | 4  | 18.88 | 18.69 | 18.71 |                        |             |
| 3               | 256QAM | 8  | 7  | 18.82 | 18.84 | 18.87 |                        |             |
| 3               | 256QAM | 15 | 0  | 18.77 | 18.76 | 18.85 | 20                     | 5           |
| 3               | 256QAM | 15 | 0  | 18.77 | 18.76 | 18.85 |                        |             |
| Channel         |        |    |    | 23017 | 23095 | 23173 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 699.7 | 707.5 | 715.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 23.60 | 23.73 | 23.63 | 25                     | 0           |
| 1.4             | QPSK   | 1  | 3  | 23.72 | 23.74 | 23.73 |                        |             |
| 1.4             | QPSK   | 1  | 5  | 23.76 | 23.71 | 23.69 |                        |             |
| 1.4             | QPSK   | 3  | 0  | 23.49 | 23.79 | 23.58 |                        |             |
| 1.4             | QPSK   | 3  | 1  | 23.71 | 23.81 | 23.75 |                        |             |
| 1.4             | QPSK   | 3  | 3  | 23.76 | 23.69 | 23.69 | 24                     | 1           |
| 1.4             | QPSK   | 6  | 0  | 22.62 | 22.59 | 22.72 |                        |             |
| 1.4             | 16QAM  | 1  | 0  | 22.60 | 22.68 | 22.65 | 24                     | 1           |
| 1.4             | 16QAM  | 1  | 3  | 22.52 | 22.65 | 22.61 |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 22.51 | 22.58 | 22.55 |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 23.25 | 23.10 | 22.99 |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 22.99 | 22.94 | 22.99 |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 23.03 | 22.98 | 23.01 | 23                     | 2           |
| 1.4             | 16QAM  | 6  | 0  | 21.68 | 21.66 | 21.55 |                        |             |
| 1.4             | 64QAM  | 1  | 0  | 21.46 | 21.40 | 21.42 | 23                     | 2           |



|     |        |   |   |       |       |       |    |   |
|-----|--------|---|---|-------|-------|-------|----|---|
| 1.4 | 64QAM  | 1 | 3 | 21.48 | 21.52 | 21.63 |    |   |
| 1.4 | 64QAM  | 1 | 5 | 21.42 | 21.45 | 21.36 |    |   |
| 1.4 | 64QAM  | 3 | 0 | 22.03 | 22.06 | 22.08 |    |   |
| 1.4 | 64QAM  | 3 | 1 | 22.02 | 21.99 | 22.06 |    |   |
| 1.4 | 64QAM  | 3 | 3 | 22.06 | 21.92 | 21.96 |    |   |
| 1.4 | 64QAM  | 6 | 0 | 20.57 | 20.58 | 20.77 | 22 | 3 |
| 1.4 | 256QAM | 1 | 0 | 19.31 | 19.21 | 19.21 | 20 | 5 |
| 1.4 | 256QAM | 1 | 3 | 19.11 | 19.18 | 19.27 |    |   |
| 1.4 | 256QAM | 1 | 5 | 19.23 | 19.33 | 19.18 |    |   |
| 1.4 | 256QAM | 3 | 0 | 18.70 | 18.85 | 18.97 |    |   |
| 1.4 | 256QAM | 3 | 1 | 18.81 | 18.67 | 18.73 |    |   |
| 1.4 | 256QAM | 3 | 3 | 18.82 | 18.84 | 18.88 | 20 | 5 |
| 1.4 | 256QAM | 6 | 0 | 18.65 | 18.73 | 18.77 |    |   |

### Band 13 Ant0 DSI5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23230                 |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 782                   |                          |                        |                     |          |
| 10              | QPSK       | 1       | 0         |                       | 23.71                    |                        | 25                  | 0        |
| 10              | QPSK       | 1       | 25        |                       | 23.67                    |                        |                     |          |
| 10              | QPSK       | 1       | 49        |                       | 23.57                    |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 22.71                    |                        | 24                  | 1        |
| 10              | QPSK       | 25      | 12        |                       | 22.63                    |                        |                     |          |
| 10              | QPSK       | 25      | 25        |                       | 22.58                    |                        |                     |          |
| 10              | QPSK       | 50      | 0         |                       | 22.59                    |                        | 24                  | 1        |
| 10              | 16QAM      | 1       | 0         |                       | 22.89                    |                        |                     |          |
| 10              | 16QAM      | 1       | 25        |                       | 23.06                    |                        |                     |          |
| 10              | 16QAM      | 1       | 49        |                       | 23.07                    |                        | 23                  | 2        |
| 10              | 16QAM      | 25      | 0         |                       | 21.64                    |                        |                     |          |
| 10              | 16QAM      | 25      | 12        |                       | 21.80                    |                        |                     |          |
| 10              | 16QAM      | 25      | 25        |                       | 21.82                    |                        | 23                  | 2        |
| 10              | 16QAM      | 50      | 0         |                       | 21.78                    |                        |                     |          |
| 10              | 64QAM      | 1       | 0         |                       | 22.05                    |                        |                     |          |
| 10              | 64QAM      | 1       | 25        |                       | 22.12                    |                        | 23                  | 2        |
| 10              | 64QAM      | 1       | 49        |                       | 22.08                    |                        |                     |          |
| 10              | 64QAM      | 25      | 0         |                       | 20.66                    |                        |                     |          |
| 10              | 64QAM      | 25      | 12        |                       | 20.89                    |                        | 22                  | 3        |
| 10              | 64QAM      | 25      | 25        |                       | 20.87                    |                        |                     |          |
| 10              | 64QAM      | 50      | 0         |                       | 20.68                    |                        |                     |          |
| 10              | 256QAM     | 1       | 0         |                       | 18.75                    |                        | 20                  | 5        |
| 10              | 256QAM     | 1       | 25        |                       | 18.61                    |                        |                     |          |
| 10              | 256QAM     | 1       | 49        |                       | 18.57                    |                        |                     |          |
| 10              | 256QAM     | 25      | 0         |                       | 18.75                    |                        | 20                  | 5        |
| 10              | 256QAM     | 25      | 12        |                       | 18.88                    |                        |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 256QAM | 25 | 25 |       | 18.85 |       |                        |             |
| 10              | 256QAM | 50 | 0  |       | 18.87 |       |                        |             |
| Channel         |        |    |    | 23205 | 23230 | 23255 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 779.5 | 782   | 784.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.52 | 23.65 | 23.39 | 25                     | 0           |
| 5               | QPSK   | 1  | 12 | 23.35 | 23.59 | 23.49 |                        |             |
| 5               | QPSK   | 1  | 24 | 23.25 | 23.44 | 23.40 |                        |             |
| 5               | QPSK   | 12 | 0  | 22.52 | 22.63 | 22.36 | 24                     | 1           |
| 5               | QPSK   | 12 | 7  | 22.52 | 22.49 | 22.45 |                        |             |
| 5               | QPSK   | 12 | 13 | 22.38 | 22.42 | 22.33 |                        |             |
| 5               | QPSK   | 25 | 0  | 22.47 | 22.44 | 22.36 |                        |             |
| 5               | 16QAM  | 1  | 0  | 22.66 | 22.80 | 22.69 | 24                     | 1           |
| 5               | 16QAM  | 1  | 12 | 22.93 | 23.03 | 22.99 |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.96 | 23.05 | 22.74 |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.31 | 21.61 | 21.44 | 23                     | 2           |
| 5               | 16QAM  | 12 | 7  | 21.61 | 21.68 | 21.55 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.71 | 21.75 | 21.61 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.56 | 21.68 | 21.64 |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.74 | 21.94 | 21.92 | 23                     | 2           |
| 5               | 64QAM  | 1  | 12 | 21.88 | 22.06 | 21.93 |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.79 | 21.98 | 21.86 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.41 | 20.59 | 20.38 | 22                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.60 | 20.81 | 20.83 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.55 | 20.80 | 20.68 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.45 | 20.53 | 20.46 |                        |             |
| 5               | 256QAM | 1  | 0  | 18.49 | 18.70 | 18.55 | 20                     | 5           |
| 5               | 256QAM | 1  | 12 | 18.39 | 18.54 | 18.53 |                        |             |
| 5               | 256QAM | 1  | 24 | 18.38 | 18.42 | 18.35 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.44 | 18.62 | 18.62 | 20                     | 5           |
| 5               | 256QAM | 12 | 7  | 18.67 | 18.78 | 18.80 |                        |             |
| 5               | 256QAM | 12 | 13 | 18.60 | 18.78 | 18.55 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.52 | 18.78 | 18.56 |                        |             |

| Band 14 Ant0 DSI5 |            |         |           |                             |                                |                              |                        |             |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 23330                       |                                |                              |                        |             |
| Frequency (MHz)   |            |         |           | 793                         |                                |                              |                        |             |
| 10                | QPSK       | 1       | 0         |                             | 23.83                          |                              | 25                     | 0           |
| 10                | QPSK       | 1       | 25        |                             | 23.76                          |                              |                        |             |
| 10                | QPSK       | 1       | 49        |                             | 23.79                          |                              |                        |             |
| 10                | QPSK       | 25      | 0         |                             | 22.82                          |                              | 24                     | 1           |
| 10                | QPSK       | 25      | 12        |                             | 22.67                          |                              |                        |             |
| 10                | QPSK       | 25      | 25        |                             | 22.78                          |                              |                        |             |
| 10                | QPSK       | 50      | 0         |                             | 22.80                          |                              |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 1  | 0  |       | 23.12 |       | 24                     | 1           |
| 10              | 16QAM  | 1  | 25 |       | 23.24 |       |                        |             |
| 10              | 16QAM  | 1  | 49 |       | 23.04 |       |                        |             |
| 10              | 16QAM  | 25 | 0  |       | 21.80 |       | 23                     | 2           |
| 10              | 16QAM  | 25 | 12 |       | 21.90 |       |                        |             |
| 10              | 16QAM  | 25 | 25 |       | 21.82 |       |                        |             |
| 10              | 16QAM  | 50 | 0  |       | 21.86 |       |                        |             |
| 10              | 64QAM  | 1  | 0  |       | 21.73 |       | 23                     | 2           |
| 10              | 64QAM  | 1  | 25 |       | 21.72 |       |                        |             |
| 10              | 64QAM  | 1  | 49 |       | 21.69 |       |                        |             |
| 10              | 64QAM  | 25 | 0  |       | 20.79 |       | 22                     | 3           |
| 10              | 64QAM  | 25 | 12 |       | 20.78 |       |                        |             |
| 10              | 64QAM  | 25 | 25 |       | 20.78 |       |                        |             |
| 10              | 64QAM  | 50 | 0  |       | 20.79 |       |                        |             |
| 10              | 256QAM | 1  | 0  |       | 18.76 |       | 20                     | 5           |
| 10              | 256QAM | 1  | 25 |       | 18.90 |       |                        |             |
| 10              | 256QAM | 1  | 49 |       | 18.84 |       |                        |             |
| 10              | 256QAM | 25 | 0  |       | 18.71 |       | 20                     | 5           |
| 10              | 256QAM | 25 | 12 |       | 18.83 |       |                        |             |
| 10              | 256QAM | 25 | 25 |       | 18.76 |       |                        |             |
| 10              | 256QAM | 50 | 0  |       | 18.62 |       |                        |             |
| Channel         |        |    |    | 23305 | 23330 | 23355 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 790.5 | 793   | 795.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.63 | 23.81 | 23.63 | 25                     | 0           |
| 5               | QPSK   | 1  | 12 | 23.66 | 23.66 | 23.63 |                        |             |
| 5               | QPSK   | 1  | 24 | 23.68 | 23.70 | 23.53 |                        |             |
| 5               | QPSK   | 12 | 0  | 22.38 | 22.52 | 22.37 | 24                     | 1           |
| 5               | QPSK   | 12 | 7  | 22.39 | 22.59 | 22.48 |                        |             |
| 5               | QPSK   | 12 | 13 | 22.73 | 22.74 | 22.48 |                        |             |
| 5               | QPSK   | 25 | 0  | 22.57 | 22.68 | 22.70 |                        |             |
| 5               | 16QAM  | 1  | 0  | 22.85 | 22.97 | 23.03 | 24                     | 1           |
| 5               | 16QAM  | 1  | 12 | 22.97 | 23.20 | 23.07 |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.77 | 22.92 | 22.79 |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.56 | 21.64 | 21.66 | 23                     | 2           |
| 5               | 16QAM  | 12 | 7  | 21.85 | 21.78 | 21.68 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.68 | 21.74 | 21.68 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.75 | 21.73 | 21.81 |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.59 | 21.57 | 21.42 | 23                     | 2           |
| 5               | 64QAM  | 1  | 12 | 21.54 | 21.65 | 21.50 |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.49 | 21.67 | 21.47 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.63 | 20.64 | 20.62 | 22                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.59 | 20.71 | 20.43 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.45 | 20.65 | 20.67 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.58 | 20.62 | 20.63 |                        |             |
| 5               | 256QAM | 1  | 0  | 18.52 | 18.62 | 18.59 | 20                     | 5           |
| 5               | 256QAM | 1  | 12 | 18.66 | 18.76 | 18.67 |                        |             |
| 5               | 256QAM | 1  | 24 | 18.60 | 18.82 | 18.70 |                        |             |

|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | 256QAM | 12 | 0  | 18.46 | 18.61 | 18.51 | 20 | 5 |
| 5 | 256QAM | 12 | 7  | 18.63 | 18.67 | 18.60 |    |   |
| 5 | 256QAM | 12 | 13 | 18.61 | 18.70 | 18.56 |    |   |
| 5 | 256QAM | 25 | 0  | 18.46 | 18.49 | 18.42 |    |   |

| Band 17 Ant0 DSI5 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23780                 | 23790                    | 23800                  |                     |          |
| Frequency (MHz)   |            |         |           | 709                   | 710                      | 711                    |                     |          |
| 10                | QPSK       | 1       | 0         | 23.77                 | 23.82                    | 23.74                  | 25                  | 0        |
| 10                | QPSK       | 1       | 25        | 23.77                 | 23.81                    | 23.73                  |                     |          |
| 10                | QPSK       | 1       | 49        | 23.71                 | 23.79                    | 23.58                  |                     |          |
| 10                | QPSK       | 25      | 0         | 22.71                 | 22.78                    | 22.72                  | 24                  | 1        |
| 10                | QPSK       | 25      | 12        | 22.76                 | 22.72                    | 22.70                  |                     |          |
| 10                | QPSK       | 25      | 25        | 22.70                 | 22.72                    | 22.66                  |                     |          |
| 10                | QPSK       | 50      | 0         | 22.65                 | 22.69                    | 22.58                  | 24                  | 1        |
| 10                | 16QAM      | 1       | 0         | 22.86                 | 22.91                    | 22.98                  |                     |          |
| 10                | 16QAM      | 1       | 25        | 23.05                 | 23.04                    | 23.13                  |                     |          |
| 10                | 16QAM      | 1       | 49        | 22.83                 | 22.92                    | 22.90                  | 23                  | 2        |
| 10                | 16QAM      | 25      | 0         | 21.63                 | 21.71                    | 21.76                  |                     |          |
| 10                | 16QAM      | 25      | 12        | 21.67                 | 21.76                    | 21.72                  |                     |          |
| 10                | 16QAM      | 25      | 25        | 21.70                 | 21.69                    | 21.75                  | 23                  | 2        |
| 10                | 16QAM      | 50      | 0         | 21.94                 | 21.90                    | 21.85                  |                     |          |
| 10                | 64QAM      | 1       | 0         | 21.95                 | 21.89                    | 21.84                  |                     |          |
| 10                | 64QAM      | 1       | 25        | 21.74                 | 21.73                    | 21.68                  | 22                  | 3        |
| 10                | 64QAM      | 1       | 49        | 21.88                 | 21.79                    | 21.70                  |                     |          |
| 10                | 64QAM      | 25      | 0         | 20.72                 | 20.72                    | 20.76                  |                     |          |
| 10                | 64QAM      | 25      | 12        | 20.79                 | 20.75                    | 20.77                  | 20                  | 5        |
| 10                | 64QAM      | 25      | 25        | 20.93                 | 20.85                    | 20.90                  |                     |          |
| 10                | 64QAM      | 50      | 0         | 20.65                 | 20.73                    | 20.67                  |                     |          |
| 10                | 256QAM     | 1       | 0         | 19.21                 | 19.22                    | 19.29                  | 20                  | 5        |
| 10                | 256QAM     | 1       | 25        | 19.21                 | 19.24                    | 19.32                  |                     |          |
| 10                | 256QAM     | 1       | 49        | 19.31                 | 19.33                    | 19.39                  |                     |          |
| 10                | 256QAM     | 25      | 0         | 19.25                 | 19.19                    | 19.17                  | 20                  | 5        |
| 10                | 256QAM     | 25      | 12        | 19.33                 | 19.25                    | 19.18                  |                     |          |
| 10                | 256QAM     | 25      | 25        | 19.31                 | 19.21                    | 19.29                  |                     |          |
| 10                | 256QAM     | 50      | 0         | 19.10                 | 19.14                    | 19.12                  | 25                  | 0        |
| 5                 | QPSK       | 1       | 0         | 23.69                 | 23.76                    | 23.72                  |                     |          |
| 5                 | QPSK       | 1       | 12        | 23.70                 | 23.66                    | 23.68                  |                     |          |
| 5                 | QPSK       | 1       | 24        | 23.58                 | 23.62                    | 23.53                  | 24                  | 1        |
| 5                 | QPSK       | 12      | 0         | 22.53                 | 22.52                    | 22.57                  |                     |          |
| 5                 | QPSK       | 12      | 7         | 22.63                 | 22.60                    | 22.60                  |                     |          |
| 5                 | QPSK       | 12      | 13        | 22.56                 | 22.57                    | 22.50                  | 24                  | 1        |
| 5                 | QPSK       | 25      | 0         | 22.55                 | 22.44                    | 22.43                  |                     |          |

|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | 16QAM  | 1  | 0  | 22.72 | 22.84 | 22.88 | 24 | 1 |
| 5 | 16QAM  | 1  | 12 | 23.02 | 22.99 | 23.10 |    |   |
| 5 | 16QAM  | 1  | 24 | 22.77 | 22.83 | 22.84 |    |   |
| 5 | 16QAM  | 12 | 0  | 21.51 | 21.56 | 21.59 | 23 | 2 |
| 5 | 16QAM  | 12 | 7  | 21.59 | 21.72 | 21.61 |    |   |
| 5 | 16QAM  | 12 | 13 | 21.56 | 21.61 | 21.59 |    |   |
| 5 | 16QAM  | 25 | 0  | 21.81 | 21.84 | 21.72 | 23 | 2 |
| 5 | 64QAM  | 1  | 0  | 21.86 | 21.80 | 21.73 |    |   |
| 5 | 64QAM  | 1  | 12 | 21.64 | 21.62 | 21.64 |    |   |
| 5 | 64QAM  | 1  | 24 | 21.83 | 21.68 | 21.61 | 22 | 3 |
| 5 | 64QAM  | 12 | 0  | 20.64 | 20.55 | 20.60 |    |   |
| 5 | 64QAM  | 12 | 7  | 20.64 | 20.62 | 20.68 |    |   |
| 5 | 64QAM  | 12 | 13 | 20.84 | 20.71 | 20.75 | 20 | 5 |
| 5 | 64QAM  | 25 | 0  | 20.59 | 20.62 | 20.51 |    |   |
| 5 | 256QAM | 1  | 0  | 19.11 | 19.16 | 19.26 |    |   |
| 5 | 256QAM | 1  | 12 | 19.05 | 19.14 | 19.18 | 20 | 5 |
| 5 | 256QAM | 1  | 24 | 19.25 | 19.24 | 19.23 |    |   |
| 5 | 256QAM | 12 | 0  | 19.22 | 19.10 | 19.00 |    |   |
| 5 | 256QAM | 12 | 7  | 19.22 | 19.14 | 19.05 | 20 | 5 |
| 5 | 256QAM | 12 | 13 | 19.16 | 19.06 | 19.12 |    |   |
| 5 | 256QAM | 25 | 0  | 19.07 | 19.09 | 19.04 |    |   |

| Band 26 Ant0 DSI5 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |
| Frequency (MHz)   |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15                | QPSK       | 1       | 0         | 23.07                 | 23.11                    | 22.95                  | 24.5                | 0        |
| 15                | QPSK       | 1       | 37        | 22.96                 | 23.07                    | 23.02                  |                     |          |
| 15                | QPSK       | 1       | 74        | 22.96                 | 23.02                    | 23.10                  |                     |          |
| 15                | QPSK       | 36      | 0         | 22.73                 | 22.75                    | 22.65                  | 24                  | 0.5      |
| 15                | QPSK       | 36      | 20        | 22.65                 | 22.63                    | 22.56                  |                     |          |
| 15                | QPSK       | 36      | 39        | 22.72                 | 22.67                    | 22.67                  |                     |          |
| 15                | QPSK       | 75      | 0         | 22.59                 | 22.63                    | 22.60                  | 24                  | 0.5      |
| 15                | 16QAM      | 1       | 0         | 22.89                 | 22.80                    | 22.83                  |                     |          |
| 15                | 16QAM      | 1       | 37        | 22.70                 | 22.76                    | 22.79                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 22.70                 | 22.69                    | 22.69                  | 23                  | 1.5      |
| 15                | 16QAM      | 36      | 0         | 21.75                 | 21.70                    | 21.62                  |                     |          |
| 15                | 16QAM      | 36      | 20        | 21.53                 | 21.49                    | 21.51                  |                     |          |
| 15                | 16QAM      | 36      | 39        | 21.69                 | 21.61                    | 21.60                  | 23                  | 1.5      |
| 15                | 16QAM      | 75      | 0         | 21.61                 | 21.56                    | 21.46                  |                     |          |
| 15                | 64QAM      | 1       | 0         | 21.59                 | 21.59                    | 21.56                  |                     |          |
| 15                | 64QAM      | 1       | 37        | 21.72                 | 21.72                    | 21.80                  | 23                  | 1.5      |
| 15                | 64QAM      | 1       | 74        | 21.59                 | 21.64                    | 21.56                  |                     |          |
| 15                | 64QAM      | 36      | 0         | 20.57                 | 20.61                    | 20.62                  | 22                  | 2.5      |
| 15                | 64QAM      | 36      | 20        | 20.60                 | 20.51                    | 20.42                  |                     |          |
| 15                | 64QAM      | 36      | 39        | 20.59                 | 20.61                    | 20.54                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 64QAM  | 75 | 0  | 20.58 | 20.58 | 20.65 | 20                     | 4.5         |
| 15              | 256QAM | 1  | 0  | 18.82 | 18.74 | 18.80 |                        |             |
| 15              | 256QAM | 1  | 37 | 18.92 | 18.83 | 18.86 |                        |             |
| 15              | 256QAM | 1  | 74 | 18.82 | 18.83 | 18.84 | 20                     | 4.5         |
| 15              | 256QAM | 36 | 0  | 18.60 | 18.65 | 18.67 |                        |             |
| 15              | 256QAM | 36 | 20 | 18.70 | 18.70 | 18.73 |                        |             |
| 15              | 256QAM | 36 | 39 | 18.70 | 18.70 | 18.75 |                        |             |
| 15              | 256QAM | 75 | 0  | 18.86 | 18.79 | 18.73 |                        |             |
| Channel         |        |    |    | 26740 | 26865 | 26990 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 819   | 831.5 | 844   |                        |             |
| 10              | QPSK   | 1  | 0  | 23.05 | 23.02 | 22.83 | 24.5                   | 0           |
| 10              | QPSK   | 1  | 25 | 22.91 | 22.96 | 22.93 |                        |             |
| 10              | QPSK   | 1  | 49 | 22.82 | 22.96 | 23.07 |                        |             |
| 10              | QPSK   | 25 | 0  | 22.58 | 22.65 | 22.60 | 24                     | 0.5         |
| 10              | QPSK   | 25 | 12 | 22.57 | 22.60 | 22.43 |                        |             |
| 10              | QPSK   | 25 | 25 | 22.60 | 22.67 | 22.62 |                        |             |
| 10              | QPSK   | 50 | 0  | 22.44 | 22.47 | 22.54 |                        |             |
| 10              | 16QAM  | 1  | 0  | 22.74 | 22.77 | 22.67 | 24                     | 0.5         |
| 10              | 16QAM  | 1  | 25 | 22.65 | 22.74 | 22.76 |                        |             |
| 10              | 16QAM  | 1  | 49 | 22.60 | 22.63 | 22.67 |                        |             |
| 10              | 16QAM  | 25 | 0  | 21.64 | 21.66 | 21.54 | 23                     | 1.5         |
| 10              | 16QAM  | 25 | 12 | 21.50 | 21.34 | 21.37 |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.56 | 21.47 | 21.49 |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.52 | 21.45 | 21.30 |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.55 | 21.56 | 21.49 | 23                     | 1.5         |
| 10              | 64QAM  | 1  | 25 | 21.64 | 21.66 | 21.73 |                        |             |
| 10              | 64QAM  | 1  | 49 | 21.49 | 21.47 | 21.43 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.41 | 20.51 | 20.45 | 22                     | 2.5         |
| 10              | 64QAM  | 25 | 12 | 20.50 | 20.45 | 20.32 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.50 | 20.47 | 20.39 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.55 | 20.42 | 20.52 |                        |             |
| 10              | 256QAM | 1  | 0  | 18.66 | 18.58 | 18.70 | 20                     | 4.5         |
| 10              | 256QAM | 1  | 25 | 18.89 | 18.80 | 18.82 |                        |             |
| 10              | 256QAM | 1  | 49 | 18.64 | 18.72 | 18.74 |                        |             |
| 10              | 256QAM | 25 | 0  | 18.54 | 18.58 | 18.63 | 20                     | 4.5         |
| 10              | 256QAM | 25 | 12 | 18.65 | 18.60 | 18.59 |                        |             |
| 10              | 256QAM | 25 | 25 | 18.57 | 18.62 | 18.70 |                        |             |
| 10              | 256QAM | 50 | 0  | 18.81 | 18.65 | 18.70 |                        |             |
| Channel         |        |    |    | 26715 | 26865 | 27015 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 816.5 | 831.5 | 846.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.99 | 23.04 | 22.85 | 24.5                   | 0           |
| 5               | QPSK   | 1  | 12 | 22.84 | 22.96 | 22.91 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.90 | 22.99 | 23.05 |                        |             |
| 5               | QPSK   | 12 | 0  | 22.67 | 22.64 | 22.47 | 24                     | 0.5         |
| 5               | QPSK   | 12 | 7  | 22.51 | 22.52 | 22.53 |                        |             |
| 5               | QPSK   | 12 | 13 | 22.62 | 22.66 | 22.63 |                        |             |
| 5               | QPSK   | 25 | 0  | 22.53 | 22.52 | 22.48 |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 5               | 16QAM  | 1  | 0  | 22.84 | 22.67 | 22.75 | 24                     | 0.5         |
| 5               | 16QAM  | 1  | 12 | 22.53 | 22.72 | 22.74 |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.67 | 22.57 | 22.57 |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.57 | 21.60 | 21.58 | 23                     | 1.5         |
| 5               | 16QAM  | 12 | 7  | 21.44 | 21.38 | 21.42 |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.54 | 21.51 | 21.51 |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.44 | 21.39 | 21.28 | 23                     | 1.5         |
| 5               | 64QAM  | 1  | 0  | 21.45 | 21.53 | 21.40 |                        |             |
| 5               | 64QAM  | 1  | 12 | 21.57 | 21.58 | 21.63 |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.56 | 21.49 | 21.45 | 22                     | 2.5         |
| 5               | 64QAM  | 12 | 0  | 20.47 | 20.58 | 20.55 |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.46 | 20.48 | 20.40 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.41 | 20.54 | 20.48 | 20                     | 4.5         |
| 5               | 64QAM  | 25 | 0  | 20.44 | 20.51 | 20.54 |                        |             |
| 5               | 256QAM | 1  | 0  | 18.70 | 18.66 | 18.76 |                        |             |
| 5               | 256QAM | 1  | 12 | 18.76 | 18.65 | 18.75 | 20                     | 4.5         |
| 5               | 256QAM | 1  | 24 | 18.71 | 18.71 | 18.78 |                        |             |
| 5               | 256QAM | 12 | 0  | 18.48 | 18.49 | 18.56 |                        |             |
| 5               | 256QAM | 12 | 7  | 18.59 | 18.66 | 18.56 | 20                     | 4.5         |
| 5               | 256QAM | 12 | 13 | 18.58 | 18.67 | 18.65 |                        |             |
| 5               | 256QAM | 25 | 0  | 18.76 | 18.67 | 18.69 |                        |             |
| Channel         |        |    |    | 26705 | 26865 | 27025 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 815.5 | 831.5 | 847.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 22.98 | 23.02 | 22.91 | 24.5                   | 0           |
| 3               | QPSK   | 1  | 8  | 22.88 | 23.03 | 22.93 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.86 | 22.89 | 23.03 |                        |             |
| 3               | QPSK   | 8  | 0  | 22.64 | 22.57 | 22.61 | 24                     | 0.5         |
| 3               | QPSK   | 8  | 4  | 22.62 | 22.58 | 22.53 |                        |             |
| 3               | QPSK   | 8  | 7  | 22.63 | 22.58 | 22.50 |                        |             |
| 3               | QPSK   | 15 | 0  | 22.45 | 22.52 | 22.55 | 24                     | 0.5         |
| 3               | 16QAM  | 1  | 0  | 22.72 | 22.65 | 22.80 |                        |             |
| 3               | 16QAM  | 1  | 8  | 22.67 | 22.62 | 22.76 |                        |             |
| 3               | 16QAM  | 1  | 14 | 22.60 | 22.66 | 22.58 | 23                     | 1.5         |
| 3               | 16QAM  | 8  | 0  | 21.70 | 21.64 | 21.56 |                        |             |
| 3               | 16QAM  | 8  | 4  | 21.47 | 21.39 | 21.39 |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.54 | 21.54 | 21.45 | 23                     | 1.5         |
| 3               | 16QAM  | 15 | 0  | 21.47 | 21.53 | 21.36 |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.51 | 21.48 | 21.53 |                        |             |
| 3               | 64QAM  | 1  | 8  | 21.64 | 21.62 | 21.69 | 22                     | 2.5         |
| 3               | 64QAM  | 1  | 14 | 21.49 | 21.59 | 21.40 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.49 | 20.45 | 20.48 |                        |             |
| 3               | 64QAM  | 8  | 4  | 20.53 | 20.46 | 20.25 | 20                     | 4.5         |
| 3               | 64QAM  | 8  | 7  | 20.50 | 20.57 | 20.39 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.48 | 20.46 | 20.55 |                        |             |
| 3               | 256QAM | 1  | 0  | 18.65 | 18.66 | 18.66 | 20                     | 4.5         |
| 3               | 256QAM | 1  | 8  | 18.79 | 18.72 | 18.78 |                        |             |
| 3               | 256QAM | 1  | 14 | 18.66 | 18.75 | 18.76 |                        |             |

|                 |        |    |   |       |       |       |                        |             |
|-----------------|--------|----|---|-------|-------|-------|------------------------|-------------|
| 3               | 256QAM | 8  | 0 | 18.43 | 18.52 | 18.52 | 20                     | 4.5         |
| 3               | 256QAM | 8  | 4 | 18.54 | 18.57 | 18.60 |                        |             |
| 3               | 256QAM | 8  | 7 | 18.63 | 18.65 | 18.59 |                        |             |
| 3               | 256QAM | 15 | 0 | 18.81 | 18.72 | 18.65 |                        |             |
| Channel         |        |    |   | 26697 | 26865 | 27033 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |   | 814.7 | 831.5 | 848.3 |                        |             |
| 1.4             | QPSK   | 1  | 0 | 22.99 | 23.07 | 22.91 | 24.5                   | 0           |
| 1.4             | QPSK   | 1  | 3 | 22.88 | 22.95 | 22.99 |                        |             |
| 1.4             | QPSK   | 1  | 5 | 22.91 | 22.99 | 23.06 |                        |             |
| 1.4             | QPSK   | 3  | 0 | 23.03 | 22.97 | 22.82 |                        |             |
| 1.4             | QPSK   | 3  | 1 | 22.94 | 23.00 | 22.97 |                        |             |
| 1.4             | QPSK   | 3  | 3 | 22.86 | 22.93 | 23.01 |                        |             |
| 1.4             | QPSK   | 6  | 0 | 22.61 | 22.63 | 22.49 | 24                     | 0.5         |
| 1.4             | 16QAM  | 1  | 0 | 22.53 | 22.52 | 22.53 | 24                     | 0.5         |
| 1.4             | 16QAM  | 1  | 3 | 22.68 | 22.58 | 22.63 |                        |             |
| 1.4             | 16QAM  | 1  | 5 | 22.57 | 22.50 | 22.51 |                        |             |
| 1.4             | 16QAM  | 3  | 0 | 22.84 | 22.66 | 22.79 |                        |             |
| 1.4             | 16QAM  | 3  | 1 | 22.66 | 22.58 | 22.61 |                        |             |
| 1.4             | 16QAM  | 3  | 3 | 22.57 | 22.53 | 22.58 |                        |             |
| 1.4             | 16QAM  | 6  | 0 | 21.58 | 21.62 | 21.55 | 23                     | 1.5         |
| 1.4             | 64QAM  | 1  | 0 | 21.48 | 21.41 | 21.36 | 23                     | 1.5         |
| 1.4             | 64QAM  | 1  | 3 | 21.63 | 21.46 | 21.47 |                        |             |
| 1.4             | 64QAM  | 1  | 5 | 21.51 | 21.45 | 21.30 |                        |             |
| 1.4             | 64QAM  | 3  | 0 | 21.57 | 21.43 | 21.53 |                        |             |
| 1.4             | 64QAM  | 3  | 1 | 21.55 | 21.70 | 21.66 |                        |             |
| 1.4             | 64QAM  | 3  | 3 | 21.55 | 21.58 | 21.45 |                        |             |
| 1.4             | 64QAM  | 6  | 0 | 20.46 | 20.48 | 20.52 | 22                     | 2.5         |
| 1.4             | 256QAM | 1  | 0 | 18.78 | 18.64 | 18.74 | 20                     | 4.5         |
| 1.4             | 256QAM | 1  | 3 | 18.88 | 18.77 | 18.75 |                        |             |
| 1.4             | 256QAM | 1  | 5 | 18.69 | 18.74 | 18.82 |                        |             |
| 1.4             | 256QAM | 3  | 0 | 18.43 | 18.62 | 18.56 |                        |             |
| 1.4             | 256QAM | 3  | 1 | 18.57 | 18.53 | 18.60 |                        |             |
| 1.4             | 256QAM | 3  | 3 | 18.65 | 18.61 | 18.60 |                        |             |
| 1.4             | 256QAM | 6  | 0 | 18.81 | 18.75 | 18.60 | 20                     | 4.5         |

| Band 71 Ant0 DSI5 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 133222                   | 133297                      | 133372                    |                        |             |
| Frequency (MHz)   |            |         |           | 673                      | 680.5                       | 688                       |                        |             |
| 20                | QPSK       | 1       | 0         | 22.67                    | 22.76                       | 22.63                     | 24                     | 0           |
| 20                | QPSK       | 1       | 49        | 22.66                    | 22.73                       | 22.69                     |                        |             |
| 20                | QPSK       | 1       | 99        | 22.66                    | 22.65                       | 22.62                     |                        |             |
| 20                | QPSK       | 50      | 0         | 21.65                    | 21.68                       | 21.63                     | 23                     | 1           |
| 20                | QPSK       | 50      | 24        | 21.64                    | 21.60                       | 21.64                     |                        |             |

|                 |        |     |    |        |        |        |                        |             |
|-----------------|--------|-----|----|--------|--------|--------|------------------------|-------------|
| 20              | QPSK   | 50  | 50 | 21.55  | 21.52  | 21.62  |                        |             |
| 20              | QPSK   | 100 | 0  | 21.59  | 21.62  | 21.60  |                        |             |
| 20              | 16QAM  | 1   | 0  | 21.82  | 21.87  | 21.93  |                        |             |
| 20              | 16QAM  | 1   | 49 | 21.82  | 21.83  | 21.82  | 23                     | 1           |
| 20              | 16QAM  | 1   | 99 | 21.98  | 21.91  | 21.88  | 22                     | 2           |
| 20              | 16QAM  | 50  | 0  | 20.67  | 20.65  | 20.64  |                        |             |
| 20              | 16QAM  | 50  | 24 | 20.58  | 20.58  | 20.53  |                        |             |
| 20              | 16QAM  | 50  | 50 | 20.79  | 20.78  | 20.70  |                        |             |
| 20              | 16QAM  | 100 | 0  | 20.67  | 20.66  | 20.70  | 22                     | 2           |
| 20              | 64QAM  | 1   | 0  | 20.91  | 20.95  | 21.04  |                        |             |
| 20              | 64QAM  | 1   | 49 | 21.06  | 21.01  | 21.07  |                        |             |
| 20              | 64QAM  | 1   | 99 | 20.96  | 20.97  | 20.94  | 21                     | 3           |
| 20              | 64QAM  | 50  | 0  | 19.72  | 19.67  | 19.66  |                        |             |
| 20              | 64QAM  | 50  | 24 | 19.47  | 19.55  | 19.54  |                        |             |
| 20              | 64QAM  | 50  | 50 | 19.66  | 19.64  | 19.57  |                        |             |
| 20              | 64QAM  | 100 | 0  | 19.60  | 19.62  | 19.55  | 19                     | 5           |
| 20              | 256QAM | 1   | 0  | 17.68  | 17.60  | 17.65  |                        |             |
| 20              | 256QAM | 1   | 49 | 17.62  | 17.61  | 17.71  |                        |             |
| 20              | 256QAM | 1   | 99 | 17.71  | 17.70  | 17.71  | 19                     | 5           |
| 20              | 256QAM | 50  | 0  | 17.63  | 17.55  | 17.58  |                        |             |
| 20              | 256QAM | 50  | 24 | 17.56  | 17.59  | 17.57  |                        |             |
| 20              | 256QAM | 50  | 50 | 17.52  | 17.61  | 17.71  |                        |             |
| 20              | 256QAM | 100 | 0  | 17.64  | 17.70  | 17.79  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |     |    | 133197 | 133297 | 133397 |                        |             |
| Frequency (MHz) |        |     |    | 670.5  | 680.5  | 690.5  | 24                     | 0           |
| 15              | QPSK   | 1   | 0  | 22.65  | 22.70  | 22.52  |                        |             |
| 15              | QPSK   | 1   | 37 | 22.63  | 22.60  | 22.53  |                        |             |
| 15              | QPSK   | 1   | 74 | 22.51  | 22.61  | 22.51  | 23                     | 1           |
| 15              | QPSK   | 36  | 0  | 21.44  | 21.49  | 21.57  |                        |             |
| 15              | QPSK   | 36  | 20 | 21.50  | 21.48  | 21.57  |                        |             |
| 15              | QPSK   | 36  | 39 | 21.52  | 21.37  | 21.56  |                        |             |
| 15              | QPSK   | 75  | 0  | 21.40  | 21.40  | 21.47  | 23                     | 1           |
| 15              | 16QAM  | 1   | 0  | 21.64  | 21.80  | 21.89  |                        |             |
| 15              | 16QAM  | 1   | 37 | 21.79  | 21.77  | 21.77  |                        |             |
| 15              | 16QAM  | 1   | 74 | 21.92  | 21.88  | 21.71  | 22                     | 2           |
| 15              | 16QAM  | 36  | 0  | 20.50  | 20.61  | 20.61  |                        |             |
| 15              | 16QAM  | 36  | 20 | 20.47  | 20.47  | 20.43  |                        |             |
| 15              | 16QAM  | 36  | 39 | 20.73  | 20.69  | 20.61  |                        |             |
| 15              | 16QAM  | 75  | 0  | 20.57  | 20.57  | 20.58  | 22                     | 2           |
| 15              | 64QAM  | 1   | 0  | 20.81  | 20.90  | 21.00  |                        |             |
| 15              | 64QAM  | 1   | 37 | 20.91  | 20.96  | 20.99  |                        |             |
| 15              | 64QAM  | 1   | 74 | 20.86  | 20.84  | 20.77  | 21                     | 3           |
| 15              | 64QAM  | 36  | 0  | 19.63  | 19.59  | 19.48  |                        |             |
| 15              | 64QAM  | 36  | 20 | 19.30  | 19.50  | 19.52  |                        |             |
| 15              | 64QAM  | 36  | 39 | 19.56  | 19.47  | 19.53  |                        |             |
| 15              | 64QAM  | 75  | 0  | 19.49  | 19.52  | 19.51  | 19                     | 5           |
| 15              | 256QAM | 1   | 0  | 17.53  | 17.52  | 17.55  |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 256QAM | 1  | 37 | 17.45  | 17.53  | 17.55  | 19                     | 5           |
| 15              | 256QAM | 1  | 74 | 17.67  | 17.62  | 17.57  |                        |             |
| 15              | 256QAM | 36 | 0  | 17.59  | 17.38  | 17.40  |                        |             |
| 15              | 256QAM | 36 | 20 | 17.53  | 17.57  | 17.40  |                        |             |
| 15              | 256QAM | 36 | 39 | 17.35  | 17.58  | 17.67  |                        |             |
| 15              | 256QAM | 75 | 0  | 17.57  | 17.65  | 17.70  |                        |             |
| Channel         |        |    |    | 133172 | 133297 | 133422 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |             |
| 10              | QPSK   | 1  | 0  | 22.64  | 22.70  | 22.52  | 24                     | 0           |
| 10              | QPSK   | 1  | 25 | 22.62  | 22.63  | 22.55  |                        |             |
| 10              | QPSK   | 1  | 49 | 22.56  | 22.49  | 22.50  |                        |             |
| 10              | QPSK   | 25 | 0  | 21.38  | 21.59  | 21.55  | 23                     | 1           |
| 10              | QPSK   | 25 | 12 | 21.61  | 21.46  | 21.59  |                        |             |
| 10              | QPSK   | 25 | 25 | 21.46  | 21.39  | 21.47  |                        |             |
| 10              | QPSK   | 50 | 0  | 21.35  | 21.47  | 21.44  |                        |             |
| 10              | 16QAM  | 1  | 0  | 21.75  | 21.70  | 21.88  | 23                     | 1           |
| 10              | 16QAM  | 1  | 25 | 21.64  | 21.75  | 21.68  |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.81  | 21.87  | 21.86  |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.53  | 20.56  | 20.55  | 22                     | 2           |
| 10              | 16QAM  | 25 | 12 | 20.43  | 20.45  | 20.44  |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.63  | 20.73  | 20.53  |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.52  | 20.51  | 20.59  |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.74  | 20.86  | 20.93  | 22                     | 2           |
| 10              | 64QAM  | 1  | 25 | 20.99  | 20.88  | 20.95  |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.80  | 20.86  | 20.86  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.69  | 19.64  | 19.56  | 21                     | 3           |
| 10              | 64QAM  | 25 | 12 | 19.37  | 19.40  | 19.44  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.55  | 19.53  | 19.48  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.46  | 19.45  | 19.46  |                        |             |
| 10              | 256QAM | 1  | 0  | 17.62  | 17.51  | 17.48  | 19                     | 5           |
| 10              | 256QAM | 1  | 25 | 17.54  | 17.55  | 17.59  |                        |             |
| 10              | 256QAM | 1  | 49 | 17.54  | 17.67  | 17.54  |                        |             |
| 10              | 256QAM | 25 | 0  | 17.56  | 17.41  | 17.52  | 19                     | 5           |
| 10              | 256QAM | 25 | 12 | 17.46  | 17.55  | 17.48  |                        |             |
| 10              | 256QAM | 25 | 25 | 17.35  | 17.54  | 17.65  |                        |             |
| 10              | 256QAM | 50 | 0  | 17.47  | 17.66  | 17.72  |                        |             |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |             |
| 5               | QPSK   | 1  | 0  | 22.61  | 22.68  | 22.52  | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.63  | 22.62  | 22.60  |                        |             |
| 5               | QPSK   | 1  | 24 | 22.60  | 22.59  | 22.49  |                        |             |
| 5               | QPSK   | 12 | 0  | 21.51  | 21.61  | 21.53  | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.58  | 21.49  | 21.49  |                        |             |
| 5               | QPSK   | 12 | 13 | 21.52  | 21.41  | 21.52  |                        |             |
| 5               | QPSK   | 25 | 0  | 21.40  | 21.46  | 21.58  |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.77  | 21.72  | 21.81  | 23                     | 1           |
| 5               | 16QAM  | 1  | 12 | 21.78  | 21.79  | 21.71  |                        |             |

|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | 16QAM  | 1  | 24 | 21.90 | 21.78 | 21.76 |    |   |
| 5 | 16QAM  | 12 | 0  | 20.62 | 20.54 | 20.54 | 22 | 2 |
| 5 | 16QAM  | 12 | 7  | 20.41 | 20.43 | 20.40 |    |   |
| 5 | 16QAM  | 12 | 13 | 20.68 | 20.63 | 20.58 |    |   |
| 5 | 16QAM  | 25 | 0  | 20.63 | 20.61 | 20.56 |    |   |
| 5 | 64QAM  | 1  | 0  | 20.74 | 20.90 | 21.00 | 22 | 2 |
| 5 | 64QAM  | 1  | 12 | 21.02 | 20.93 | 20.98 |    |   |
| 5 | 64QAM  | 1  | 24 | 20.81 | 20.85 | 20.85 |    |   |
| 5 | 64QAM  | 12 | 0  | 19.57 | 19.58 | 19.58 | 21 | 3 |
| 5 | 64QAM  | 12 | 7  | 19.41 | 19.45 | 19.47 |    |   |
| 5 | 64QAM  | 12 | 13 | 19.52 | 19.47 | 19.50 |    |   |
| 5 | 64QAM  | 25 | 0  | 19.57 | 19.58 | 19.39 |    |   |
| 5 | 256QAM | 1  | 0  | 17.57 | 17.43 | 17.55 | 19 | 5 |
| 5 | 256QAM | 1  | 12 | 17.52 | 17.53 | 17.59 |    |   |
| 5 | 256QAM | 1  | 24 | 17.61 | 17.60 | 17.66 |    |   |
| 5 | 256QAM | 12 | 0  | 17.54 | 17.44 | 17.45 | 19 | 5 |
| 5 | 256QAM | 12 | 7  | 17.42 | 17.48 | 17.43 |    |   |
| 5 | 256QAM | 12 | 13 | 17.41 | 17.53 | 17.66 |    |   |
| 5 | 256QAM | 25 | 0  | 17.51 | 17.61 | 17.76 |    |   |

| Band 5 Ant1 DSI5 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 20450                 | 20525                    | 20600                  | 24                  | 0        |
| Frequency (MHz)  |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10               | QPSK       | 1       | 0         | 22.30                 | 22.36                    | 22.23                  |                     |          |
| 10               | QPSK       | 1       | 25        | 22.22                 | 22.29                    | 22.31                  | 23                  | 1        |
| 10               | QPSK       | 1       | 49        | 22.31                 | 22.20                    | 22.28                  |                     |          |
| 10               | QPSK       | 25      | 0         | 21.48                 | 21.54                    | 21.53                  |                     |          |
| 10               | QPSK       | 25      | 12        | 21.24                 | 21.22                    | 21.19                  |                     |          |
| 10               | QPSK       | 25      | 25        | 21.37                 | 21.42                    | 21.38                  | 23                  | 1        |
| 10               | QPSK       | 50      | 0         | 21.45                 | 21.50                    | 21.47                  |                     |          |
| 10               | 16QAM      | 1       | 0         | 21.65                 | 21.72                    | 21.72                  |                     |          |
| 10               | 16QAM      | 1       | 25        | 21.57                 | 21.57                    | 21.60                  | 22                  | 2        |
| 10               | 16QAM      | 1       | 49        | 21.67                 | 21.52                    | 21.66                  |                     |          |
| 10               | 16QAM      | 25      | 0         | 20.52                 | 20.49                    | 20.35                  |                     |          |
| 10               | 16QAM      | 25      | 12        | 20.23                 | 20.22                    | 20.33                  | 22                  | 2        |
| 10               | 16QAM      | 25      | 25        | 20.40                 | 20.36                    | 20.33                  |                     |          |
| 10               | 16QAM      | 50      | 0         | 20.34                 | 20.31                    | 20.25                  |                     |          |
| 10               | 64QAM      | 1       | 0         | 20.51                 | 20.50                    | 20.38                  |                     |          |
| 10               | 64QAM      | 1       | 25        | 20.55                 | 20.42                    | 20.50                  | 21                  | 3        |
| 10               | 64QAM      | 1       | 49        | 20.42                 | 20.47                    | 20.41                  |                     |          |
| 10               | 64QAM      | 25      | 0         | 20.62                 | 20.50                    | 20.38                  |                     |          |
| 10               | 64QAM      | 25      | 12        | 20.43                 | 20.44                    | 20.39                  |                     |          |
| 10               | 64QAM      | 25      | 25        | 20.40                 | 20.30                    | 20.35                  | 19                  | 5        |
| 10               | 64QAM      | 50      | 0         | 20.31                 | 20.34                    | 20.41                  |                     |          |
| 10               | 256QAM     | 1       | 0         | 17.31                 | 17.27                    | 17.35                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 256QAM | 1  | 25 | 17.14 | 17.30 | 17.36 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.19 | 17.23 | 17.34 |                        |             |
| 10              | 256QAM | 25 | 0  | 17.37 | 17.44 | 17.26 |                        |             |
| 10              | 256QAM | 25 | 12 | 17.23 | 17.31 | 17.37 | 19                     | 5           |
| 10              | 256QAM | 25 | 25 | 17.37 | 17.37 | 17.41 |                        |             |
| 10              | 256QAM | 50 | 0  | 17.27 | 17.34 | 17.26 |                        |             |
| Channel         |        |    |    | 20425 | 20525 | 20625 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 826.5 | 836.5 | 846.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.26 | 22.28 | 22.14 | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.17 | 22.18 | 22.22 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.23 | 22.08 | 22.12 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.33 | 21.41 | 21.38 | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.12 | 21.12 | 21.15 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.27 | 21.36 | 21.26 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.32 | 21.44 | 21.40 | 23                     | 1           |
| 5               | 16QAM  | 1  | 0  | 21.50 | 21.68 | 21.59 |                        |             |
| 5               | 16QAM  | 1  | 12 | 21.48 | 21.44 | 21.52 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.53 | 21.43 | 21.52 | 22                     | 2           |
| 5               | 16QAM  | 12 | 0  | 20.39 | 20.35 | 20.19 |                        |             |
| 5               | 16QAM  | 12 | 7  | 20.16 | 20.07 | 20.19 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.33 | 20.24 | 20.20 | 22                     | 2           |
| 5               | 16QAM  | 25 | 0  | 20.19 | 20.26 | 20.10 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.46 | 20.40 | 20.32 |                        |             |
| 5               | 64QAM  | 1  | 12 | 20.40 | 20.29 | 20.40 | 22                     | 2           |
| 5               | 64QAM  | 1  | 24 | 20.31 | 20.38 | 20.35 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.50 | 20.45 | 20.22 |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.33 | 20.33 | 20.27 | 21                     | 3           |
| 5               | 64QAM  | 12 | 13 | 20.28 | 20.25 | 20.31 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.15 | 20.18 | 20.31 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.22 | 17.15 | 17.28 | 19                     | 5           |
| 5               | 256QAM | 1  | 12 | 17.04 | 17.16 | 17.29 |                        |             |
| 5               | 256QAM | 1  | 24 | 17.06 | 17.11 | 17.28 |                        |             |
| 5               | 256QAM | 12 | 0  | 17.27 | 17.31 | 17.14 | 19                     | 5           |
| 5               | 256QAM | 12 | 7  | 17.17 | 17.21 | 17.27 |                        |             |
| 5               | 256QAM | 12 | 13 | 17.24 | 17.26 | 17.25 |                        |             |
| 5               | 256QAM | 25 | 0  | 17.18 | 17.28 | 17.12 |                        |             |
| Channel         |        |    |    | 20415 | 20525 | 20635 |                        |             |
| Frequency (MHz) |        |    |    | 825.5 | 836.5 | 847.5 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 3               | QPSK   | 1  | 0  | 22.16 | 22.24 | 22.10 | 24                     | 0           |
| 3               | QPSK   | 1  | 8  | 22.11 | 22.18 | 22.16 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.21 | 22.14 | 22.19 |                        |             |
| 3               | QPSK   | 8  | 0  | 21.43 | 21.45 | 21.47 | 23                     | 1           |
| 3               | QPSK   | 8  | 4  | 21.11 | 21.12 | 21.06 |                        |             |
| 3               | QPSK   | 8  | 7  | 21.32 | 21.37 | 21.22 |                        |             |
| 3               | QPSK   | 15 | 0  | 21.39 | 21.44 | 21.42 | 23                     | 1           |
| 3               | 16QAM  | 1  | 0  | 21.61 | 21.59 | 21.62 |                        |             |
| 3               | 16QAM  | 1  | 8  | 21.41 | 21.41 | 21.50 |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 3               | 16QAM  | 1  | 14 | 21.52 | 21.38 | 21.59 |                        |             |
| 3               | 16QAM  | 8  | 0  | 20.43 | 20.37 | 20.22 | 22                     | 2           |
| 3               | 16QAM  | 8  | 4  | 20.12 | 20.07 | 20.19 |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.28 | 20.23 | 20.18 |                        |             |
| 3               | 16QAM  | 15 | 0  | 20.22 | 20.21 | 20.10 |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.41 | 20.37 | 20.22 | 22                     | 2           |
| 3               | 64QAM  | 1  | 8  | 20.48 | 20.33 | 20.43 |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.34 | 20.33 | 20.36 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.50 | 20.45 | 20.30 | 21                     | 3           |
| 3               | 64QAM  | 8  | 4  | 20.29 | 20.29 | 20.24 |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.30 | 20.23 | 20.24 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.15 | 20.27 | 20.25 |                        |             |
| 3               | 256QAM | 1  | 0  | 17.17 | 17.17 | 17.25 | 19                     | 5           |
| 3               | 256QAM | 1  | 8  | 17.06 | 17.16 | 17.27 |                        |             |
| 3               | 256QAM | 1  | 14 | 17.09 | 17.14 | 17.22 |                        |             |
| 3               | 256QAM | 8  | 0  | 17.32 | 17.35 | 17.14 | 19                     | 5           |
| 3               | 256QAM | 8  | 4  | 17.07 | 17.18 | 17.31 |                        |             |
| 3               | 256QAM | 8  | 7  | 17.30 | 17.31 | 17.37 |                        |             |
| 3               | 256QAM | 15 | 0  | 17.22 | 17.22 | 17.15 |                        |             |
| Channel         |        |    |    | 20407 | 20525 | 20643 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 824.7 | 836.5 | 848.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 22.18 | 22.21 | 22.12 | 24                     | 0           |
| 1.4             | QPSK   | 1  | 3  | 22.14 | 22.22 | 22.17 |                        |             |
| 1.4             | QPSK   | 1  | 5  | 22.25 | 22.12 | 22.16 |                        |             |
| 1.4             | QPSK   | 3  | 0  | 22.20 | 22.21 | 22.16 |                        |             |
| 1.4             | QPSK   | 3  | 1  | 22.12 | 22.15 | 22.18 |                        |             |
| 1.4             | QPSK   | 3  | 3  | 22.26 | 22.14 | 22.15 |                        |             |
| 1.4             | QPSK   | 6  | 0  | 21.36 | 21.39 | 21.39 | 23                     | 1           |
| 1.4             | 16QAM  | 1  | 0  | 21.57 | 21.63 | 21.56 | 23                     | 1           |
| 1.4             | 16QAM  | 1  | 3  | 21.51 | 21.45 | 21.55 |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 21.60 | 21.40 | 21.52 |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.52 | 21.62 | 21.65 |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 21.51 | 21.50 | 21.46 |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 21.61 | 21.44 | 21.60 |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 20.24 | 20.19 | 20.15 | 22                     | 2           |
| 1.4             | 64QAM  | 1  | 0  | 20.44 | 20.44 | 20.33 | 22                     | 2           |
| 1.4             | 64QAM  | 1  | 3  | 20.49 | 20.36 | 20.36 |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 20.35 | 20.36 | 20.33 |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 20.52 | 20.42 | 20.34 |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 20.33 | 20.31 | 20.24 |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 20.25 | 20.22 | 20.21 |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.26 | 20.21 | 20.29 | 21                     | 3           |
| 1.4             | 256QAM | 1  | 0  | 17.22 | 17.19 | 17.24 | 19                     | 5           |
| 1.4             | 256QAM | 1  | 3  | 17.01 | 17.24 | 17.31 |                        |             |
| 1.4             | 256QAM | 1  | 5  | 17.09 | 17.16 | 17.28 |                        |             |
| 1.4             | 256QAM | 3  | 0  | 17.22 | 17.36 | 17.15 |                        |             |
| 1.4             | 256QAM | 3  | 1  | 17.18 | 17.23 | 17.32 |                        |             |

|     |        |   |   |       |       |       |    |   |
|-----|--------|---|---|-------|-------|-------|----|---|
| 1.4 | 256QAM | 3 | 3 | 17.32 | 17.24 | 17.31 |    |   |
| 1.4 | 256QAM | 6 | 0 | 17.14 | 17.26 | 17.12 | 19 | 5 |

| Band 12 Ant1 DSI5 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |
| Frequency (MHz)   |            |         |           | 704                   | 707.5                    | 711                    |                     |          |
| 10                | QPSK       | 1       | 0         | 22.47                 | 22.52                    | 22.41                  | 24                  | 0        |
| 10                | QPSK       | 1       | 25        | 22.42                 | 22.48                    | 22.49                  |                     |          |
| 10                | QPSK       | 1       | 49        | 22.37                 | 22.37                    | 22.48                  |                     |          |
| 10                | QPSK       | 25      | 0         | 21.55                 | 21.68                    | 21.66                  | 23                  | 1        |
| 10                | QPSK       | 25      | 12        | 21.47                 | 21.38                    | 21.33                  |                     |          |
| 10                | QPSK       | 25      | 25        | 21.55                 | 21.55                    | 21.49                  |                     |          |
| 10                | QPSK       | 50      | 0         | 21.55                 | 21.66                    | 21.64                  | 23                  | 1        |
| 10                | 16QAM      | 1       | 0         | 21.82                 | 21.87                    | 21.86                  |                     |          |
| 10                | 16QAM      | 1       | 25        | 21.74                 | 21.79                    | 21.75                  |                     |          |
| 10                | 16QAM      | 1       | 49        | 21.73                 | 21.70                    | 21.89                  | 22                  | 2        |
| 10                | 16QAM      | 25      | 0         | 20.59                 | 20.62                    | 20.57                  |                     |          |
| 10                | 16QAM      | 25      | 12        | 20.45                 | 20.44                    | 20.50                  |                     |          |
| 10                | 16QAM      | 25      | 25        | 20.62                 | 20.51                    | 20.50                  | 22                  | 2        |
| 10                | 16QAM      | 50      | 0         | 20.46                 | 20.43                    | 20.39                  |                     |          |
| 10                | 64QAM      | 1       | 0         | 20.63                 | 20.60                    | 20.53                  |                     |          |
| 10                | 64QAM      | 1       | 25        | 20.74                 | 20.66                    | 20.60                  | 22                  | 2        |
| 10                | 64QAM      | 1       | 49        | 20.59                 | 20.64                    | 20.53                  |                     |          |
| 10                | 64QAM      | 25      | 0         | 20.75                 | 20.67                    | 20.52                  |                     |          |
| 10                | 64QAM      | 25      | 12        | 20.60                 | 20.63                    | 20.55                  | 21                  | 3        |
| 10                | 64QAM      | 25      | 25        | 20.56                 | 20.56                    | 20.47                  |                     |          |
| 10                | 64QAM      | 50      | 0         | 20.52                 | 20.52                    | 20.52                  |                     |          |
| 10                | 256QAM     | 1       | 0         | 17.48                 | 17.54                    | 17.47                  | 19                  | 5        |
| 10                | 256QAM     | 1       | 25        | 17.31                 | 17.45                    | 17.45                  |                     |          |
| 10                | 256QAM     | 1       | 49        | 17.36                 | 17.36                    | 17.49                  |                     |          |
| 10                | 256QAM     | 25      | 0         | 17.59                 | 17.53                    | 17.50                  | 19                  | 5        |
| 10                | 256QAM     | 25      | 12        | 17.43                 | 17.54                    | 17.57                  |                     |          |
| 10                | 256QAM     | 25      | 25        | 17.56                 | 17.50                    | 17.59                  |                     |          |
| 10                | 256QAM     | 50      | 0         | 17.49                 | 17.52                    | 17.49                  | 23                  | 1        |
| Channel           |            |         |           | 23035                 | 23095                    | 23155                  |                     |          |
| Frequency (MHz)   |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |          |
| 5                 | QPSK       | 1       | 0         | 22.36                 | 22.47                    | 22.26                  | 24                  | 0        |
| 5                 | QPSK       | 1       | 12        | 22.32                 | 22.32                    | 22.35                  |                     |          |
| 5                 | QPSK       | 1       | 24        | 22.30                 | 22.23                    | 22.33                  |                     |          |
| 5                 | QPSK       | 12      | 0         | 21.50                 | 21.64                    | 21.61                  | 23                  | 1        |
| 5                 | QPSK       | 12      | 7         | 21.40                 | 21.31                    | 21.19                  |                     |          |
| 5                 | QPSK       | 12      | 13        | 21.45                 | 21.44                    | 21.35                  |                     |          |
| 5                 | QPSK       | 25      | 0         | 21.41                 | 21.61                    | 21.57                  | 23                  | 1        |
| 5                 | 16QAM      | 1       | 0         | 21.75                 | 21.81                    | 21.75                  |                     |          |
| 5                 | 16QAM      | 1       | 12        | 21.65                 | 21.67                    | 21.70                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 5               | 16QAM  | 1  | 24 | 21.64 | 21.58 | 21.76 |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.45 | 20.51 | 20.46 | 22                     | 2           |
| 5               | 16QAM  | 12 | 7  | 20.38 | 20.36 | 20.37 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.47 | 20.36 | 20.36 |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.40 | 20.28 | 20.30 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.50 | 20.50 | 20.44 | 22                     | 2           |
| 5               | 64QAM  | 1  | 12 | 20.61 | 20.55 | 20.56 |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.49 | 20.56 | 20.39 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.67 | 20.54 | 20.38 | 21                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.53 | 20.55 | 20.45 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.41 | 20.45 | 20.38 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.44 | 20.42 | 20.42 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.36 | 17.39 | 17.34 | 19                     | 5           |
| 5               | 256QAM | 1  | 12 | 17.26 | 17.39 | 17.33 |                        |             |
| 5               | 256QAM | 1  | 24 | 17.30 | 17.32 | 17.38 |                        |             |
| 5               | 256QAM | 12 | 0  | 17.54 | 17.41 | 17.35 | 19                     | 5           |
| 5               | 256QAM | 12 | 7  | 17.37 | 17.43 | 17.48 |                        |             |
| 5               | 256QAM | 12 | 13 | 17.50 | 17.35 | 17.46 |                        |             |
| 5               | 256QAM | 25 | 0  | 17.36 | 17.40 | 17.37 |                        |             |
| Channel         |        |    |    | 23025 | 23095 | 23165 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 700.5 | 707.5 | 714.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 22.33 | 22.45 | 22.35 | 24                     | 0           |
| 3               | QPSK   | 1  | 8  | 22.34 | 22.32 | 22.34 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.25 | 22.30 | 22.35 |                        |             |
| 3               | QPSK   | 8  | 0  | 21.48 | 21.52 | 21.59 | 23                     | 1           |
| 3               | QPSK   | 8  | 4  | 21.41 | 21.27 | 21.22 |                        |             |
| 3               | QPSK   | 8  | 7  | 21.47 | 21.45 | 21.39 |                        |             |
| 3               | QPSK   | 15 | 0  | 21.44 | 21.50 | 21.58 |                        |             |
| 3               | 16QAM  | 1  | 0  | 21.67 | 21.77 | 21.70 | 23                     | 1           |
| 3               | 16QAM  | 1  | 8  | 21.68 | 21.74 | 21.64 |                        |             |
| 3               | 16QAM  | 1  | 14 | 21.66 | 21.59 | 21.83 |                        |             |
| 3               | 16QAM  | 8  | 0  | 20.54 | 20.47 | 20.46 | 22                     | 2           |
| 3               | 16QAM  | 8  | 4  | 20.40 | 20.37 | 20.35 |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.56 | 20.38 | 20.37 |                        |             |
| 3               | 16QAM  | 15 | 0  | 20.37 | 20.35 | 20.27 |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.50 | 20.44 | 20.38 | 22                     | 2           |
| 3               | 64QAM  | 1  | 8  | 20.68 | 20.51 | 20.45 |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.45 | 20.49 | 20.43 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.66 | 20.61 | 20.45 | 21                     | 3           |
| 3               | 64QAM  | 8  | 4  | 20.54 | 20.54 | 20.46 |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.51 | 20.50 | 20.32 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.37 | 20.39 | 20.40 |                        |             |
| 3               | 256QAM | 1  | 0  | 17.44 | 17.42 | 17.40 | 19                     | 5           |
| 3               | 256QAM | 1  | 8  | 17.16 | 17.40 | 17.29 |                        |             |
| 3               | 256QAM | 1  | 14 | 17.31 | 17.30 | 17.39 |                        |             |
| 3               | 256QAM | 8  | 0  | 17.46 | 17.43 | 17.45 | 19                     | 5           |
| 3               | 256QAM | 8  | 4  | 17.36 | 17.49 | 17.48 |                        |             |

|                 |        |    |   |       |       |       |                        |             |
|-----------------|--------|----|---|-------|-------|-------|------------------------|-------------|
| 3               | 256QAM | 8  | 7 | 17.51 | 17.44 | 17.46 |                        |             |
| 3               | 256QAM | 15 | 0 | 17.37 | 17.47 | 17.40 |                        |             |
| Channel         |        |    |   | 23017 | 23095 | 23173 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |   | 699.7 | 707.5 | 715.3 |                        |             |
| 1.4             | QPSK   | 1  | 0 | 22.36 | 22.41 | 22.33 | 24                     | 0           |
| 1.4             | QPSK   | 1  | 3 | 22.30 | 22.39 | 22.40 |                        |             |
| 1.4             | QPSK   | 1  | 5 | 22.30 | 22.32 | 22.43 |                        |             |
| 1.4             | QPSK   | 3  | 0 | 22.34 | 22.45 | 22.30 |                        |             |
| 1.4             | QPSK   | 3  | 1 | 22.26 | 22.39 | 22.43 |                        |             |
| 1.4             | QPSK   | 3  | 3 | 22.27 | 22.22 | 22.38 |                        |             |
| 1.4             | QPSK   | 6  | 0 | 21.41 | 21.52 | 21.50 | 23                     | 1           |
| 1.4             | 16QAM  | 1  | 0 | 21.78 | 21.76 | 21.78 | 23                     | 1           |
| 1.4             | 16QAM  | 1  | 3 | 21.63 | 21.73 | 21.71 |                        |             |
| 1.4             | 16QAM  | 1  | 5 | 21.69 | 21.56 | 21.83 |                        |             |
| 1.4             | 16QAM  | 3  | 0 | 21.74 | 21.82 | 21.75 |                        |             |
| 1.4             | 16QAM  | 3  | 1 | 21.69 | 21.72 | 21.63 |                        |             |
| 1.4             | 16QAM  | 3  | 3 | 21.59 | 21.60 | 21.79 |                        |             |
| 1.4             | 16QAM  | 6  | 0 | 20.41 | 20.28 | 20.25 | 22                     | 2           |
| 1.4             | 64QAM  | 1  | 0 | 20.59 | 20.47 | 20.40 | 22                     | 2           |
| 1.4             | 64QAM  | 1  | 3 | 20.63 | 20.55 | 20.55 |                        |             |
| 1.4             | 64QAM  | 1  | 5 | 20.51 | 20.55 | 20.39 |                        |             |
| 1.4             | 64QAM  | 3  | 0 | 20.66 | 20.59 | 20.47 |                        |             |
| 1.4             | 64QAM  | 3  | 1 | 20.52 | 20.49 | 20.47 |                        |             |
| 1.4             | 64QAM  | 3  | 3 | 20.44 | 20.48 | 20.42 |                        |             |
| 1.4             | 64QAM  | 6  | 0 | 20.45 | 20.47 | 20.47 | 21                     | 3           |
| 1.4             | 256QAM | 1  | 0 | 17.43 | 17.48 | 17.36 | 19                     | 5           |
| 1.4             | 256QAM | 1  | 3 | 17.25 | 17.31 | 17.38 |                        |             |
| 1.4             | 256QAM | 1  | 5 | 17.21 | 17.26 | 17.34 |                        |             |
| 1.4             | 256QAM | 3  | 0 | 17.47 | 17.40 | 17.45 |                        |             |
| 1.4             | 256QAM | 3  | 1 | 17.38 | 17.40 | 17.51 |                        |             |
| 1.4             | 256QAM | 3  | 3 | 17.47 | 17.40 | 17.48 |                        |             |
| 1.4             | 256QAM | 6  | 0 | 17.34 | 17.37 | 17.38 | 19                     | 5           |

| Band 13 Ant1 DSI5 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23230                 |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 782                   |                          |                        |                     |          |
| 10                | QPSK       | 1       | 0         |                       | 22.45                    |                        | 24                  | 0        |
| 10                | QPSK       | 1       | 25        |                       | 22.37                    |                        |                     |          |
| 10                | QPSK       | 1       | 49        |                       | 22.39                    |                        |                     |          |
| 10                | QPSK       | 25      | 0         |                       | 21.62                    |                        | 23                  | 1        |
| 10                | QPSK       | 25      | 12        |                       | 21.34                    |                        |                     |          |
| 10                | QPSK       | 25      | 25        |                       | 21.45                    |                        |                     |          |
| 10                | QPSK       | 50      | 0         |                       | 21.61                    |                        | 23                  | 1        |
| 10                | 16QAM      | 1       | 0         |                       | 21.84                    |                        |                     |          |
| 10                | 16QAM      | 1       | 25        |                       | 21.70                    |                        |                     |          |
| 10                | 16QAM      | 1       | 49        |                       | 21.64                    |                        | 22                  | 2        |
| 10                | 16QAM      | 25      | 0         |                       | 20.58                    |                        |                     |          |
| 10                | 16QAM      | 25      | 12        |                       | 20.39                    |                        |                     |          |
| 10                | 16QAM      | 25      | 25        |                       | 20.43                    |                        | 22                  | 2        |
| 10                | 16QAM      | 50      | 0         |                       | 20.44                    |                        |                     |          |
| 10                | 64QAM      | 1       | 0         |                       | 20.59                    |                        |                     |          |
| 10                | 64QAM      | 1       | 25        |                       | 20.62                    |                        | 21                  | 3        |
| 10                | 64QAM      | 1       | 49        |                       | 20.46                    |                        |                     |          |
| 10                | 64QAM      | 25      | 0         |                       | 20.56                    |                        |                     |          |
| 10                | 64QAM      | 25      | 12        |                       | 20.49                    |                        | 19                  | 5        |
| 10                | 64QAM      | 25      | 25        |                       | 20.40                    |                        |                     |          |
| 10                | 64QAM      | 50      | 0         |                       | 20.44                    |                        |                     |          |
| 10                | 256QAM     | 1       | 0         |                       | 17.47                    |                        | 19                  | 5        |
| 10                | 256QAM     | 1       | 25        |                       | 17.31                    |                        |                     |          |
| 10                | 256QAM     | 1       | 49        |                       | 17.28                    |                        |                     |          |
| 10                | 256QAM     | 25      | 0         |                       | 17.57                    |                        | 19                  | 5        |
| 10                | 256QAM     | 25      | 12        |                       | 17.46                    |                        |                     |          |
| 10                | 256QAM     | 25      | 25        |                       | 17.43                    |                        |                     |          |
| 10                | 256QAM     | 50      | 0         |                       | 17.46                    |                        | 24                  | 0        |
| Channel           |            |         |           | 23205                 | 23230                    | 23255                  |                     |          |
| Frequency (MHz)   |            |         |           | 779.5                 | 782                      | 784.5                  | 24                  | 0        |
| 5                 | QPSK       | 1       | 0         | 22.42                 | 22.25                    | 22.26                  |                     |          |
| 5                 | QPSK       | 1       | 12        | 22.20                 | 22.29                    | 22.31                  |                     |          |
| 5                 | QPSK       | 1       | 24        | 22.33                 | 22.21                    | 22.30                  | 23                  | 1        |
| 5                 | QPSK       | 12      | 0         | 21.41                 | 21.40                    | 21.51                  |                     |          |
| 5                 | QPSK       | 12      | 7         | 21.23                 | 21.35                    | 21.15                  |                     |          |
| 5                 | QPSK       | 12      | 13        | 21.34                 | 21.35                    | 21.28                  | 23                  | 1        |
| 5                 | QPSK       | 25      | 0         | 21.38                 | 21.52                    | 21.42                  |                     |          |
| 5                 | 16QAM      | 1       | 0         | 21.78                 | 21.69                    | 21.67                  |                     |          |
| 5                 | 16QAM      | 1       | 12        | 21.50                 | 21.57                    | 21.56                  | 22                  | 2        |
| 5                 | 16QAM      | 1       | 24        | 21.64                 | 21.53                    | 21.70                  |                     |          |
| 5                 | 16QAM      | 12      | 0         | 20.45                 | 20.44                    | 20.38                  |                     |          |

|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | 16QAM  | 12 | 7  | 20.30 | 20.26 | 20.25 |    |   |
| 5 | 16QAM  | 12 | 13 | 20.39 | 20.30 | 20.33 |    |   |
| 5 | 16QAM  | 25 | 0  | 20.37 | 20.27 | 20.29 |    |   |
| 5 | 64QAM  | 1  | 0  | 20.48 | 20.45 | 20.36 | 22 | 2 |
| 5 | 64QAM  | 1  | 12 | 20.60 | 20.49 | 20.54 |    |   |
| 5 | 64QAM  | 1  | 24 | 20.37 | 20.40 | 20.33 |    |   |
| 5 | 64QAM  | 12 | 0  | 20.60 | 20.46 | 20.38 | 21 | 3 |
| 5 | 64QAM  | 12 | 7  | 20.45 | 20.41 | 20.46 |    |   |
| 5 | 64QAM  | 12 | 13 | 20.40 | 20.33 | 20.29 |    |   |
| 5 | 64QAM  | 25 | 0  | 20.40 | 20.48 | 20.44 |    |   |
| 5 | 256QAM | 1  | 0  | 17.35 | 17.39 | 17.37 | 19 | 5 |
| 5 | 256QAM | 1  | 12 | 17.19 | 17.20 | 17.33 |    |   |
| 5 | 256QAM | 1  | 24 | 17.18 | 17.26 | 17.29 |    |   |
| 5 | 256QAM | 12 | 0  | 17.35 | 17.37 | 17.33 | 19 | 5 |
| 5 | 256QAM | 12 | 7  | 17.29 | 17.33 | 17.44 |    |   |
| 5 | 256QAM | 12 | 13 | 17.38 | 17.46 | 17.44 |    |   |
| 5 | 256QAM | 25 | 0  | 17.16 | 17.29 | 17.31 |    |   |

| Band 14 Ant1 DSI5 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 23330                 |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 793                   |                          |                        |                     |          |
| 10                | QPSK       | 1       | 0         |                       | 22.47                    |                        | 24                  | 0        |
| 10                | QPSK       | 1       | 25        |                       | 22.36                    |                        |                     |          |
| 10                | QPSK       | 1       | 49        |                       | 22.41                    |                        |                     |          |
| 10                | QPSK       | 25      | 0         |                       | 21.54                    |                        | 23                  | 1        |
| 10                | QPSK       | 25      | 12        |                       | 21.36                    |                        |                     |          |
| 10                | QPSK       | 25      | 25        |                       | 21.52                    |                        |                     |          |
| 10                | QPSK       | 50      | 0         |                       | 21.60                    |                        |                     |          |
| 10                | 16QAM      | 1       | 0         |                       | 21.86                    |                        | 23                  | 1        |
| 10                | 16QAM      | 1       | 25        |                       | 21.65                    |                        |                     |          |
| 10                | 16QAM      | 1       | 49        |                       | 21.71                    |                        |                     |          |
| 10                | 16QAM      | 25      | 0         |                       | 20.57                    |                        | 22                  | 2        |
| 10                | 16QAM      | 25      | 12        |                       | 20.32                    |                        |                     |          |
| 10                | 16QAM      | 25      | 25        |                       | 20.46                    |                        |                     |          |
| 10                | 16QAM      | 50      | 0         |                       | 20.43                    |                        |                     |          |
| 10                | 64QAM      | 1       | 0         |                       | 20.61                    |                        | 22                  | 2        |
| 10                | 64QAM      | 1       | 25        |                       | 20.56                    |                        |                     |          |
| 10                | 64QAM      | 1       | 49        |                       | 20.59                    |                        |                     |          |
| 10                | 64QAM      | 25      | 0         |                       | 20.64                    |                        | 21                  | 3        |
| 10                | 64QAM      | 25      | 12        |                       | 20.57                    |                        |                     |          |
| 10                | 64QAM      | 25      | 25        |                       | 20.51                    |                        |                     |          |
| 10                | 64QAM      | 50      | 0         |                       | 20.48                    |                        |                     |          |
| 10                | 256QAM     | 1       | 0         |                       | 17.46                    |                        | 19                  | 5        |
| 10                | 256QAM     | 1       | 25        |                       | 17.34                    |                        |                     |          |
| 10                | 256QAM     | 1       | 49        |                       | 17.32                    |                        |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 256QAM | 25 | 0  |       | 17.56 |       | 19                     | 5           |
| 10              | 256QAM | 25 | 12 |       | 17.40 |       |                        |             |
| 10              | 256QAM | 25 | 25 |       | 17.43 |       |                        |             |
| 10              | 256QAM | 50 | 0  |       | 17.47 |       |                        |             |
| Channel         |        |    |    | 23305 | 23330 | 23355 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 790.5 | 793   | 795.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.41 | 22.40 | 22.30 | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.29 | 22.34 | 22.26 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.25 | 22.19 | 22.25 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.47 | 21.42 | 21.51 | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.20 | 21.21 | 21.14 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.38 | 21.30 | 21.33 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.40 | 21.43 | 21.47 |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.72 | 21.66 | 21.73 | 23                     | 1           |
| 5               | 16QAM  | 1  | 12 | 21.54 | 21.56 | 21.52 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.69 | 21.68 | 21.70 |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.49 | 20.49 | 20.40 | 22                     | 2           |
| 5               | 16QAM  | 12 | 7  | 20.35 | 20.25 | 20.30 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.45 | 20.36 | 20.41 |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.37 | 20.28 | 20.28 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.46 | 20.54 | 20.46 | 22                     | 2           |
| 5               | 64QAM  | 1  | 12 | 20.63 | 20.50 | 20.52 |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.52 | 20.45 | 20.41 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.56 | 20.50 | 20.35 | 21                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.44 | 20.44 | 20.40 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.35 | 20.38 | 20.33 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.43 | 20.40 | 20.42 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.39 | 17.29 | 17.30 | 19                     | 5           |
| 5               | 256QAM | 1  | 12 | 17.16 | 17.29 | 17.31 |                        |             |
| 5               | 256QAM | 1  | 24 | 17.26 | 17.19 | 17.27 |                        |             |
| 5               | 256QAM | 12 | 0  | 17.33 | 17.49 | 17.36 | 19                     | 5           |
| 5               | 256QAM | 12 | 7  | 17.31 | 17.43 | 17.38 |                        |             |
| 5               | 256QAM | 12 | 13 | 17.39 | 17.34 | 17.53 |                        |             |
| 5               | 256QAM | 25 | 0  | 17.32 | 17.30 | 17.29 |                        |             |

| Band 17 Ant1 DSI5 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 23780                    | 23790                       | 23800                     |                        |             |
| Frequency (MHz)   |            |         |           | 709                      | 710                         | 711                       |                        |             |
| 10                | QPSK       | 1       | 0         | 22.60                    | 22.66                       | 22.51                     | 24                     | 0           |
| 10                | QPSK       | 1       | 25        | 22.63                    | 22.64                       | 22.58                     |                        |             |
| 10                | QPSK       | 1       | 49        | 22.52                    | 22.57                       | 22.60                     |                        |             |
| 10                | QPSK       | 25      | 0         | 21.77                    | 21.83                       | 21.82                     | 23                     | 1           |
| 10                | QPSK       | 25      | 12        | 21.56                    | 21.62                       | 21.51                     |                        |             |
| 10                | QPSK       | 25      | 25        | 21.74                    | 21.71                       | 21.64                     |                        |             |
| 10                | QPSK       | 50      | 0         | 21.71                    | 21.79                       | 21.71                     |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 1  | 0  | 22.00 | 22.02 | 22.09 | 23                     | 1           |
| 10              | 16QAM  | 1  | 25 | 21.79 | 21.88 | 21.82 |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.93 | 21.93 | 21.92 |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.83 | 20.71 | 20.61 | 22                     | 2           |
| 10              | 16QAM  | 25 | 12 | 20.55 | 20.54 | 20.56 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.71 | 20.68 | 20.65 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.59 | 20.64 | 20.55 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.77 | 20.72 | 20.71 | 22                     | 2           |
| 10              | 64QAM  | 1  | 25 | 20.81 | 20.82 | 20.81 |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.66 | 20.76 | 20.70 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.82 | 20.78 | 20.72 | 21                     | 3           |
| 10              | 64QAM  | 25 | 12 | 20.69 | 20.77 | 20.68 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.60 | 20.62 | 20.63 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.71 | 20.74 | 20.68 |                        |             |
| 10              | 256QAM | 1  | 0  | 17.58 | 17.58 | 17.65 | 19                     | 5           |
| 10              | 256QAM | 1  | 25 | 17.50 | 17.61 | 17.58 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.51 | 17.48 | 17.54 |                        |             |
| 10              | 256QAM | 25 | 0  | 17.64 | 17.74 | 17.66 | 19                     | 5           |
| 10              | 256QAM | 25 | 12 | 17.62 | 17.63 | 17.73 |                        |             |
| 10              | 256QAM | 25 | 25 | 17.72 | 17.61 | 17.75 |                        |             |
| 10              | 256QAM | 50 | 0  | 17.57 | 17.60 | 17.52 |                        |             |
| Channel         |        |    |    | 23755 | 23790 | 23825 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 706.5 | 710   | 713.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.47 | 22.56 | 22.37 | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.52 | 22.54 | 22.53 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.45 | 22.49 | 22.44 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.70 | 21.73 | 21.75 | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.41 | 21.48 | 21.36 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.69 | 21.61 | 21.52 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.57 | 21.67 | 21.57 |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.87 | 21.93 | 21.99 | 23                     | 1           |
| 5               | 16QAM  | 1  | 12 | 21.73 | 21.77 | 21.68 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.85 | 21.85 | 21.82 |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.69 | 20.62 | 20.57 | 22                     | 2           |
| 5               | 16QAM  | 12 | 7  | 20.51 | 20.49 | 20.46 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.60 | 20.62 | 20.59 |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.44 | 20.53 | 20.42 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.63 | 20.63 | 20.59 | 22                     | 2           |
| 5               | 64QAM  | 1  | 12 | 20.68 | 20.76 | 20.69 |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.60 | 20.63 | 20.62 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.75 | 20.70 | 20.57 |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.57 | 20.71 | 20.63 | 21                     | 3           |
| 5               | 64QAM  | 12 | 13 | 20.54 | 20.56 | 20.51 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.57 | 20.69 | 20.55 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.46 | 17.49 | 17.54 |                        |             |
| 5               | 256QAM | 1  | 12 | 17.46 | 17.57 | 17.48 | 19                     | 5           |
| 5               | 256QAM | 1  | 24 | 17.39 | 17.43 | 17.44 |                        |             |

|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | 256QAM | 12 | 0  | 17.49 | 17.61 | 17.56 | 19 | 5 |
| 5 | 256QAM | 12 | 7  | 17.51 | 17.54 | 17.59 |    |   |
| 5 | 256QAM | 12 | 13 | 17.60 | 17.57 | 17.64 |    |   |
| 5 | 256QAM | 25 | 0  | 17.48 | 17.55 | 17.42 |    |   |

| Band 26 Ant1 DSI5 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |
| Frequency (MHz)   |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15                | QPSK       | 1       | 0         | 22.30                 | 22.34                    | 22.22                  | 24                  | 0        |
| 15                | QPSK       | 1       | 37        | 22.23                 | 22.30                    | 22.32                  |                     |          |
| 15                | QPSK       | 1       | 74        | 22.19                 | 22.22                    | 22.26                  |                     |          |
| 15                | QPSK       | 36      | 0         | 21.47                 | 21.49                    | 21.47                  | 23                  | 1        |
| 15                | QPSK       | 36      | 20        | 21.21                 | 21.26                    | 21.10                  |                     |          |
| 15                | QPSK       | 36      | 39        | 21.37                 | 21.32                    | 21.40                  |                     |          |
| 15                | QPSK       | 75      | 0         | 21.40                 | 21.47                    | 21.40                  | 23                  | 1        |
| 15                | 16QAM      | 1       | 0         | 21.72                 | 21.67                    | 21.74                  |                     |          |
| 15                | 16QAM      | 1       | 37        | 21.53                 | 21.55                    | 21.53                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 21.59                 | 21.59                    | 21.65                  | 22                  | 2        |
| 15                | 16QAM      | 36      | 0         | 20.50                 | 20.45                    | 20.34                  |                     |          |
| 15                | 16QAM      | 36      | 20        | 20.22                 | 20.22                    | 20.31                  |                     |          |
| 15                | 16QAM      | 36      | 39        | 20.37                 | 20.35                    | 20.27                  | 22                  | 2        |
| 15                | 16QAM      | 75      | 0         | 20.34                 | 20.25                    | 20.26                  |                     |          |
| 15                | 64QAM      | 1       | 0         | 20.53                 | 20.50                    | 20.42                  | 22                  | 2        |
| 15                | 64QAM      | 1       | 37        | 20.56                 | 20.45                    | 20.49                  |                     |          |
| 15                | 64QAM      | 1       | 74        | 20.46                 | 20.41                    | 20.39                  |                     |          |
| 15                | 64QAM      | 36      | 0         | 20.52                 | 20.49                    | 20.40                  | 21                  | 3        |
| 15                | 64QAM      | 36      | 20        | 20.49                 | 20.37                    | 20.43                  |                     |          |
| 15                | 64QAM      | 36      | 39        | 20.34                 | 20.35                    | 20.32                  |                     |          |
| 15                | 64QAM      | 75      | 0         | 20.36                 | 20.37                    | 20.38                  | 19                  | 5        |
| 15                | 256QAM     | 1       | 0         | 17.25                 | 17.25                    | 17.25                  |                     |          |
| 15                | 256QAM     | 1       | 37        | 17.11                 | 17.27                    | 17.27                  |                     |          |
| 15                | 256QAM     | 1       | 74        | 17.21                 | 17.19                    | 17.31                  | 19                  | 5        |
| 15                | 256QAM     | 36      | 0         | 17.44                 | 17.34                    | 17.36                  |                     |          |
| 15                | 256QAM     | 36      | 20        | 17.25                 | 17.28                    | 17.44                  |                     |          |
| 15                | 256QAM     | 36      | 39        | 17.39                 | 17.30                    | 17.41                  | 19                  | 5        |
| 15                | 256QAM     | 75      | 0         | 17.30                 | 17.30                    | 17.30                  |                     |          |
| Channel           |            |         |           | 26740                 | 26865                    | 26990                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 819                   | 831.5                    | 844                    |                     |          |
| 10                | QPSK       | 1       | 0         | 22.20                 | 22.21                    | 22.06                  |                     |          |
| 10                | QPSK       | 1       | 25        | 22.12                 | 22.17                    | 22.21                  | 24                  | 0        |
| 10                | QPSK       | 1       | 49        | 22.09                 | 22.18                    | 22.14                  |                     |          |
| 10                | QPSK       | 25      | 0         | 21.41                 | 21.35                    | 21.33                  | 23                  | 1        |
| 10                | QPSK       | 25      | 12        | 21.11                 | 21.20                    | 21.03                  |                     |          |
| 10                | QPSK       | 25      | 25        | 21.33                 | 21.23                    | 21.32                  |                     |          |
| 10                | QPSK       | 50      | 0         | 21.30                 | 21.40                    | 21.26                  | 23                  | 1        |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 10              | 16QAM  | 1  | 0  | 21.61 | 21.60 | 21.67 | 23                     | 1           |
| 10              | 16QAM  | 1  | 25 | 21.47 | 21.45 | 21.39 |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.47 | 21.50 | 21.60 |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.45 | 20.35 | 20.21 | 22                     | 2           |
| 10              | 16QAM  | 25 | 12 | 20.11 | 20.16 | 20.16 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.26 | 20.21 | 20.18 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.25 | 20.12 | 20.12 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.38 | 20.35 | 20.36 | 22                     | 2           |
| 10              | 64QAM  | 1  | 25 | 20.42 | 20.34 | 20.41 |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.38 | 20.32 | 20.29 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.47 | 20.43 | 20.27 | 21                     | 3           |
| 10              | 64QAM  | 25 | 12 | 20.41 | 20.24 | 20.36 |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.27 | 20.20 | 20.17 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.30 | 20.32 | 20.24 |                        |             |
| 10              | 256QAM | 1  | 0  | 17.16 | 17.20 | 17.20 | 19                     | 5           |
| 10              | 256QAM | 1  | 25 | 17.06 | 17.20 | 17.13 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.07 | 17.15 | 17.17 |                        |             |
| 10              | 256QAM | 25 | 0  | 17.37 | 17.21 | 17.32 | 19                     | 5           |
| 10              | 256QAM | 25 | 12 | 17.10 | 17.13 | 17.30 |                        |             |
| 10              | 256QAM | 25 | 25 | 17.34 | 17.14 | 17.31 |                        |             |
| 10              | 256QAM | 50 | 0  | 17.25 | 17.20 | 17.22 |                        |             |
| Channel         |        |    |    | 26715 | 26865 | 27015 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 816.5 | 831.5 | 846.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.22 | 22.21 | 22.14 | 24                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.11 | 22.23 | 22.27 |                        |             |
| 5               | QPSK   | 1  | 24 | 22.05 | 22.11 | 22.16 |                        |             |
| 5               | QPSK   | 12 | 0  | 21.32 | 21.35 | 21.39 | 23                     | 1           |
| 5               | QPSK   | 12 | 7  | 21.13 | 21.13 | 21.06 |                        |             |
| 5               | QPSK   | 12 | 13 | 21.27 | 21.22 | 21.28 |                        |             |
| 5               | QPSK   | 25 | 0  | 21.29 | 21.32 | 21.30 |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.65 | 21.55 | 21.69 | 23                     | 1           |
| 5               | 16QAM  | 1  | 12 | 21.47 | 21.49 | 21.40 |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.54 | 21.52 | 21.50 |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.42 | 20.32 | 20.23 | 22                     | 2           |
| 5               | 16QAM  | 12 | 7  | 20.08 | 20.09 | 20.15 |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.28 | 20.22 | 20.15 |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.20 | 20.14 | 20.17 |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.43 | 20.43 | 20.38 | 22                     | 2           |
| 5               | 64QAM  | 1  | 12 | 20.45 | 20.39 | 20.40 |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.35 | 20.25 | 20.27 |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.40 | 20.36 | 20.30 | 21                     | 3           |
| 5               | 64QAM  | 12 | 7  | 20.36 | 20.31 | 20.34 |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.27 | 20.21 | 20.20 |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.23 | 20.31 | 20.27 |                        |             |
| 5               | 256QAM | 1  | 0  | 17.12 | 17.17 | 17.13 | 19                     | 5           |
| 5               | 256QAM | 1  | 12 | 17.04 | 17.13 | 17.20 |                        |             |
| 5               | 256QAM | 1  | 24 | 17.16 | 17.09 | 17.27 |                        |             |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 5               | 256QAM | 12 | 0  | 17.34 | 17.22 | 17.24 | 19                     | 5           |
| 5               | 256QAM | 12 | 7  | 17.15 | 17.14 | 17.34 |                        |             |
| 5               | 256QAM | 12 | 13 | 17.28 | 17.22 | 17.28 |                        |             |
| 5               | 256QAM | 25 | 0  | 17.21 | 17.25 | 17.23 |                        |             |
| Channel         |        |    |    | 26705 | 26865 | 27025 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 815.5 | 831.5 | 847.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 22.16 | 22.29 | 22.08 | 24                     | 0           |
| 3               | QPSK   | 1  | 8  | 22.17 | 22.15 | 22.22 |                        |             |
| 3               | QPSK   | 1  | 14 | 22.10 | 22.10 | 22.13 |                        |             |
| 3               | QPSK   | 8  | 0  | 21.36 | 21.39 | 21.38 | 23                     | 1           |
| 3               | QPSK   | 8  | 4  | 21.09 | 21.16 | 21.04 |                        |             |
| 3               | QPSK   | 8  | 7  | 21.30 | 21.21 | 21.32 |                        |             |
| 3               | QPSK   | 15 | 0  | 21.33 | 21.36 | 21.25 |                        |             |
| 3               | 16QAM  | 1  | 0  | 21.66 | 21.56 | 21.60 | 23                     | 1           |
| 3               | 16QAM  | 1  | 8  | 21.39 | 21.40 | 21.48 |                        |             |
| 3               | 16QAM  | 1  | 14 | 21.54 | 21.54 | 21.52 |                        |             |
| 3               | 16QAM  | 8  | 0  | 20.35 | 20.33 | 20.27 | 22                     | 2           |
| 3               | 16QAM  | 8  | 4  | 20.06 | 20.11 | 20.21 |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.30 | 20.24 | 20.15 |                        |             |
| 3               | 16QAM  | 15 | 0  | 20.24 | 20.15 | 20.18 |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.48 | 20.39 | 20.27 | 22                     | 2           |
| 3               | 64QAM  | 1  | 8  | 20.41 | 20.34 | 20.38 |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.34 | 20.34 | 20.32 |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.36 | 20.39 | 20.31 | 21                     | 3           |
| 3               | 64QAM  | 8  | 4  | 20.37 | 20.29 | 20.31 |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.23 | 20.22 | 20.18 |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.25 | 20.24 | 20.24 |                        |             |
| 3               | 256QAM | 1  | 0  | 17.17 | 17.19 | 17.17 | 19                     | 5           |
| 3               | 256QAM | 1  | 8  | 17.03 | 17.19 | 17.13 |                        |             |
| 3               | 256QAM | 1  | 14 | 17.17 | 17.09 | 17.25 |                        |             |
| 3               | 256QAM | 8  | 0  | 17.35 | 17.28 | 17.22 | 19                     | 5           |
| 3               | 256QAM | 8  | 4  | 17.19 | 17.23 | 17.35 |                        |             |
| 3               | 256QAM | 8  | 7  | 17.26 | 17.24 | 17.36 |                        |             |
| 3               | 256QAM | 15 | 0  | 17.23 | 17.18 | 17.22 |                        |             |
| Channel         |        |    |    | 26697 | 26865 | 27033 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 814.7 | 831.5 | 848.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 22.15 | 22.22 | 22.15 | 24                     | 0           |
| 1.4             | QPSK   | 1  | 3  | 22.14 | 22.22 | 22.23 |                        |             |
| 1.4             | QPSK   | 1  | 5  | 22.15 | 22.12 | 22.19 |                        |             |
| 1.4             | QPSK   | 3  | 0  | 22.18 | 22.29 | 22.17 |                        |             |
| 1.4             | QPSK   | 3  | 1  | 22.09 | 22.17 | 22.24 |                        |             |
| 1.4             | QPSK   | 3  | 3  | 22.09 | 22.09 | 22.10 |                        |             |
| 1.4             | QPSK   | 6  | 0  | 21.25 | 21.37 | 21.25 | 23                     | 1           |
| 1.4             | 16QAM  | 1  | 0  | 21.58 | 21.54 | 21.64 | 23                     | 1           |
| 1.4             | 16QAM  | 1  | 3  | 21.47 | 21.48 | 21.46 |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 21.51 | 21.45 | 21.58 |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.56 | 21.60 | 21.60 |                        |             |

|     |        |   |   |       |       |       |    |   |
|-----|--------|---|---|-------|-------|-------|----|---|
| 1.4 | 16QAM  | 3 | 1 | 21.40 | 21.48 | 21.48 |    |   |
| 1.4 | 16QAM  | 3 | 3 | 21.47 | 21.54 | 21.58 |    |   |
| 1.4 | 16QAM  | 6 | 0 | 20.18 | 20.14 | 20.19 | 22 | 2 |
| 1.4 | 64QAM  | 1 | 0 | 20.42 | 20.44 | 20.37 | 22 | 2 |
| 1.4 | 64QAM  | 1 | 3 | 20.46 | 20.36 | 20.42 |    |   |
| 1.4 | 64QAM  | 1 | 5 | 20.37 | 20.25 | 20.26 |    |   |
| 1.4 | 64QAM  | 3 | 0 | 20.45 | 20.40 | 20.34 |    |   |
| 1.4 | 64QAM  | 3 | 1 | 20.36 | 20.28 | 20.28 |    |   |
| 1.4 | 64QAM  | 3 | 3 | 20.27 | 20.24 | 20.21 |    |   |
| 1.4 | 64QAM  | 6 | 0 | 20.30 | 20.30 | 20.29 | 21 | 3 |
| 1.4 | 256QAM | 1 | 0 | 17.17 | 17.15 | 17.21 | 19 | 5 |
| 1.4 | 256QAM | 1 | 3 | 17.02 | 17.17 | 17.11 |    |   |
| 1.4 | 256QAM | 1 | 5 | 17.11 | 17.11 | 17.24 |    |   |
| 1.4 | 256QAM | 3 | 0 | 17.38 | 17.26 | 17.22 |    |   |
| 1.4 | 256QAM | 3 | 1 | 17.15 | 17.13 | 17.29 |    |   |
| 1.4 | 256QAM | 3 | 3 | 17.27 | 17.25 | 17.30 |    |   |
| 1.4 | 256QAM | 6 | 0 | 17.20 | 17.18 | 17.18 | 19 | 5 |

| Band 71 Ant1 DSI5 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 133222                | 133297                   | 133372                 |                     |          |
| Frequency (MHz)   |            |         |           | 673                   | 680.5                    | 688                    |                     |          |
| 20                | QPSK       | 1       | 0         | 21.96                 | 21.99                    | 21.94                  | 23.5                | 0        |
| 20                | QPSK       | 1       | 49        | 21.91                 | 21.96                    | 21.90                  |                     |          |
| 20                | QPSK       | 1       | 99        | 21.92                 | 21.93                    | 21.92                  |                     |          |
| 20                | QPSK       | 50      | 0         | 21.04                 | 21.12                    | 21.05                  | 22.5                | 1        |
| 20                | QPSK       | 50      | 24        | 20.88                 | 20.86                    | 20.81                  |                     |          |
| 20                | QPSK       | 50      | 50        | 21.03                 | 21.05                    | 21.00                  |                     |          |
| 20                | QPSK       | 100     | 0         | 21.08                 | 21.15                    | 21.10                  |                     |          |
| 20                | 16QAM      | 1       | 0         | 21.33                 | 21.41                    | 21.42                  | 22.5                | 1        |
| 20                | 16QAM      | 1       | 49        | 21.19                 | 21.20                    | 21.23                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 21.22                 | 21.17                    | 21.33                  |                     |          |
| 20                | 16QAM      | 50      | 0         | 20.13                 | 20.11                    | 20.00                  | 21.5                | 2        |
| 20                | 16QAM      | 50      | 24        | 19.85                 | 19.88                    | 19.87                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 20.05                 | 20.04                    | 19.93                  |                     |          |
| 20                | 16QAM      | 100     | 0         | 19.91                 | 19.96                    | 19.87                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 20.18                 | 20.05                    | 20.00                  | 21.5                | 2        |
| 20                | 64QAM      | 1       | 49        | 20.19                 | 20.15                    | 20.12                  |                     |          |
| 20                | 64QAM      | 1       | 99        | 19.99                 | 20.01                    | 20.01                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 20.22                 | 20.09                    | 19.99                  | 20.5                | 3        |
| 20                | 64QAM      | 50      | 24        | 20.02                 | 20.05                    | 20.10                  |                     |          |
| 20                | 64QAM      | 50      | 50        | 19.94                 | 19.99                    | 19.97                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 20.01                 | 20.06                    | 20.10                  |                     |          |
| 20                | 256QAM     | 1       | 0         | 16.89                 | 16.92                    | 16.96                  | 18.5                | 5        |
| 20                | 256QAM     | 1       | 49        | 16.83                 | 16.89                    | 16.93                  |                     |          |

|                 |        |     |    |        |        |        |                        |             |
|-----------------|--------|-----|----|--------|--------|--------|------------------------|-------------|
| 20              | 256QAM | 1   | 99 | 16.87  | 16.84  | 16.89  |                        |             |
| 20              | 256QAM | 50  | 0  | 16.99  | 17.09  | 16.92  | 18.5                   | 5           |
| 20              | 256QAM | 50  | 24 | 16.88  | 16.92  | 17.02  |                        |             |
| 20              | 256QAM | 50  | 50 | 17.04  | 17.05  | 17.14  |                        |             |
| 20              | 256QAM | 100 | 0  | 16.90  | 16.91  | 16.89  |                        |             |
| Channel         |        |     |    | 133197 | 133297 | 133397 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 670.5  | 680.5  | 690.5  |                        |             |
| 15              | QPSK   | 1   | 0  | 21.83  | 21.84  | 21.85  | 23.5                   | 0           |
| 15              | QPSK   | 1   | 37 | 21.82  | 21.87  | 21.84  |                        |             |
| 15              | QPSK   | 1   | 74 | 21.83  | 21.77  | 21.83  |                        |             |
| 15              | QPSK   | 36  | 0  | 20.89  | 20.96  | 20.94  | 22.5                   | 1           |
| 15              | QPSK   | 36  | 20 | 20.76  | 20.76  | 20.70  |                        |             |
| 15              | QPSK   | 36  | 39 | 20.98  | 20.96  | 20.93  |                        |             |
| 15              | QPSK   | 75  | 0  | 20.94  | 20.99  | 20.97  |                        |             |
| 15              | 16QAM  | 1   | 0  | 21.24  | 21.36  | 21.36  | 22.5                   | 1           |
| 15              | 16QAM  | 1   | 37 | 21.04  | 21.15  | 21.13  |                        |             |
| 15              | 16QAM  | 1   | 74 | 21.10  | 21.07  | 21.20  |                        |             |
| 15              | 16QAM  | 36  | 0  | 20.03  | 20.02  | 19.93  | 21.5                   | 2           |
| 15              | 16QAM  | 36  | 20 | 19.77  | 19.79  | 19.79  |                        |             |
| 15              | 16QAM  | 36  | 39 | 19.95  | 19.94  | 19.87  |                        |             |
| 15              | 16QAM  | 75  | 0  | 19.86  | 19.92  | 19.77  |                        |             |
| 15              | 64QAM  | 1   | 0  | 20.09  | 19.89  | 19.94  | 21.5                   | 2           |
| 15              | 64QAM  | 1   | 37 | 20.13  | 20.08  | 19.99  |                        |             |
| 15              | 64QAM  | 1   | 74 | 19.84  | 19.93  | 19.93  |                        |             |
| 15              | 64QAM  | 36  | 0  | 20.09  | 19.97  | 19.89  | 20.5                   | 3           |
| 15              | 64QAM  | 36  | 20 | 19.96  | 19.95  | 20.00  |                        |             |
| 15              | 64QAM  | 36  | 39 | 19.81  | 19.87  | 19.87  |                        |             |
| 15              | 64QAM  | 75  | 0  | 19.90  | 19.96  | 19.96  |                        |             |
| 15              | 256QAM | 1   | 0  | 16.80  | 16.84  | 16.89  | 18.5                   | 5           |
| 15              | 256QAM | 1   | 37 | 16.71  | 16.75  | 16.84  |                        |             |
| 15              | 256QAM | 1   | 74 | 16.81  | 16.73  | 16.81  |                        |             |
| 15              | 256QAM | 36  | 0  | 16.89  | 17.03  | 16.78  | 18.5                   | 5           |
| 15              | 256QAM | 36  | 20 | 16.84  | 16.83  | 16.97  |                        |             |
| 15              | 256QAM | 36  | 39 | 16.91  | 16.94  | 17.02  |                        |             |
| 15              | 256QAM | 75  | 0  | 16.78  | 16.82  | 16.78  |                        |             |
| Channel         |        |     |    | 133172 | 133297 | 133422 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 668    | 680.5  | 693    |                        |             |
| 10              | QPSK   | 1   | 0  | 21.91  | 21.93  | 21.88  | 23.5                   | 0           |
| 10              | QPSK   | 1   | 25 | 21.79  | 21.91  | 21.79  |                        |             |
| 10              | QPSK   | 1   | 49 | 21.83  | 21.85  | 21.83  |                        |             |
| 10              | QPSK   | 25  | 0  | 20.88  | 20.98  | 20.98  | 22.5                   | 1           |
| 10              | QPSK   | 25  | 12 | 20.74  | 20.78  | 20.71  |                        |             |
| 10              | QPSK   | 25  | 25 | 20.87  | 20.99  | 20.93  |                        |             |
| 10              | QPSK   | 50  | 0  | 20.93  | 20.99  | 21.06  |                        |             |
| 10              | 16QAM  | 1   | 0  | 21.21  | 21.31  | 21.28  | 22.5                   | 1           |
| 10              | 16QAM  | 1   | 25 | 21.15  | 21.14  | 21.19  |                        |             |
| 10              | 16QAM  | 1   | 49 | 21.17  | 21.08  | 21.28  |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 10              | 16QAM  | 25 | 0  | 20.02  | 20.00  | 19.85  | 21.5                   | 2           |
| 10              | 16QAM  | 25 | 12 | 19.70  | 19.84  | 19.77  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.97  | 19.92  | 19.81  |                        |             |
| 10              | 16QAM  | 50 | 0  | 19.77  | 19.90  | 19.72  |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.02  | 19.99  | 19.91  | 21.5                   | 2           |
| 10              | 64QAM  | 1  | 25 | 20.06  | 20.01  | 19.96  |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.88  | 19.87  | 19.88  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.16  | 20.04  | 19.87  | 20.5                   | 3           |
| 10              | 64QAM  | 25 | 12 | 19.97  | 19.90  | 20.06  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.86  | 19.89  | 19.91  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.88  | 19.94  | 20.05  |                        |             |
| 10              | 256QAM | 1  | 0  | 16.84  | 16.79  | 16.92  | 18.5                   | 5           |
| 10              | 256QAM | 1  | 25 | 16.77  | 16.83  | 16.86  |                        |             |
| 10              | 256QAM | 1  | 49 | 16.76  | 16.68  | 16.74  |                        |             |
| 10              | 256QAM | 25 | 0  | 16.90  | 16.93  | 16.86  | 18.5                   | 5           |
| 10              | 256QAM | 25 | 12 | 16.75  | 16.82  | 16.87  |                        |             |
| 10              | 256QAM | 25 | 25 | 16.92  | 16.89  | 17.00  |                        |             |
| 10              | 256QAM | 50 | 0  | 16.86  | 16.84  | 16.74  |                        |             |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |             |
| 5               | QPSK   | 1  | 0  | 21.81  | 21.92  | 21.83  | 23.5                   | 0           |
| 5               | QPSK   | 1  | 12 | 21.81  | 21.84  | 21.82  |                        |             |
| 5               | QPSK   | 1  | 24 | 21.81  | 21.82  | 21.76  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.91  | 21.07  | 20.96  | 22.5                   | 1           |
| 5               | QPSK   | 12 | 7  | 20.73  | 20.78  | 20.68  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.93  | 20.99  | 20.90  |                        |             |
| 5               | QPSK   | 25 | 0  | 21.03  | 21.09  | 20.96  |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.26  | 21.26  | 21.34  | 22.5                   | 1           |
| 5               | 16QAM  | 1  | 12 | 21.08  | 21.12  | 21.15  |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.07  | 21.09  | 21.22  |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.09  | 19.97  | 19.85  | 21.5                   | 2           |
| 5               | 16QAM  | 12 | 7  | 19.73  | 19.79  | 19.75  |                        |             |
| 5               | 16QAM  | 12 | 13 | 19.91  | 19.88  | 19.85  |                        |             |
| 5               | 16QAM  | 25 | 0  | 19.84  | 19.91  | 19.73  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.12  | 19.91  | 19.87  | 21.5                   | 2           |
| 5               | 64QAM  | 1  | 12 | 20.10  | 20.00  | 20.05  |                        |             |
| 5               | 64QAM  | 1  | 24 | 19.85  | 19.92  | 19.94  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.06  | 20.00  | 19.86  | 20.5                   | 3           |
| 5               | 64QAM  | 12 | 7  | 19.86  | 20.00  | 20.02  |                        |             |
| 5               | 64QAM  | 12 | 13 | 19.80  | 19.87  | 19.88  |                        |             |
| 5               | 64QAM  | 25 | 0  | 19.88  | 19.93  | 19.96  |                        |             |
| 5               | 256QAM | 1  | 0  | 16.83  | 16.83  | 16.85  | 18.5                   | 5           |
| 5               | 256QAM | 1  | 12 | 16.73  | 16.83  | 16.88  |                        |             |
| 5               | 256QAM | 1  | 24 | 16.74  | 16.73  | 16.78  |                        |             |
| 5               | 256QAM | 12 | 0  | 16.90  | 17.01  | 16.78  | 18.5                   | 5           |
| 5               | 256QAM | 12 | 7  | 16.81  | 16.81  | 16.91  |                        |             |
| 5               | 256QAM | 12 | 13 | 16.90  | 16.89  | 17.06  |                        |             |



|   |        |    |   |       |       |       |  |  |
|---|--------|----|---|-------|-------|-------|--|--|
| 5 | 256QAM | 25 | 0 | 16.77 | 16.76 | 16.82 |  |  |
|---|--------|----|---|-------|-------|-------|--|--|

| Band 2 Ant2 DSI5 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 18700                 | 18900                    | 19100                  |                     |          |
| Frequency (MHz)  |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20               | QPSK       | 1       | 0         | 20.83                 | 20.94                    | 20.85                  | 21.7                | 0        |
| 20               | QPSK       | 1       | 49        | 20.81                 | 20.93                    | 20.93                  |                     |          |
| 20               | QPSK       | 1       | 99        | 20.88                 | 20.90                    | 20.84                  |                     |          |
| 20               | QPSK       | 50      | 0         | 20.80                 | 20.88                    | 20.80                  | 21.7                | 0        |
| 20               | QPSK       | 50      | 24        | 20.72                 | 20.86                    | 20.84                  |                     |          |
| 20               | QPSK       | 50      | 50        | 20.80                 | 20.76                    | 20.76                  |                     |          |
| 20               | QPSK       | 100     | 0         | 20.80                 | 20.83                    | 20.80                  |                     |          |
| 20               | 16QAM      | 1       | 0         | 20.80                 | 20.85                    | 20.74                  | 21.7                | 0        |
| 20               | 16QAM      | 1       | 49        | 20.78                 | 20.85                    | 20.87                  |                     |          |
| 20               | 16QAM      | 1       | 99        | 20.78                 | 20.84                    | 20.80                  |                     |          |
| 20               | 16QAM      | 50      | 0         | 20.74                 | 20.89                    | 20.82                  | 21.7                | 0        |
| 20               | 16QAM      | 50      | 24        | 20.78                 | 20.87                    | 20.89                  |                     |          |
| 20               | 16QAM      | 50      | 50        | 20.83                 | 20.85                    | 20.81                  |                     |          |
| 20               | 16QAM      | 100     | 0         | 20.77                 | 20.86                    | 20.78                  |                     |          |
| 20               | 64QAM      | 1       | 0         | 20.79                 | 20.91                    | 20.76                  | 21.7                | 0        |
| 20               | 64QAM      | 1       | 49        | 20.73                 | 20.83                    | 20.91                  |                     |          |
| 20               | 64QAM      | 1       | 99        | 20.79                 | 20.83                    | 20.81                  |                     |          |
| 20               | 64QAM      | 50      | 0         | 20.80                 | 20.72                    | 20.66                  | 21.7                | 0        |
| 20               | 64QAM      | 50      | 24        | 20.79                 | 20.69                    | 20.70                  |                     |          |
| 20               | 64QAM      | 50      | 50        | 20.84                 | 20.77                    | 20.74                  |                     |          |
| 20               | 64QAM      | 100     | 0         | 20.64                 | 20.73                    | 20.78                  |                     |          |
| 20               | 256QAM     | 1       | 0         | 18.63                 | 18.54                    | 18.59                  | 20                  | 1.7      |
| 20               | 256QAM     | 1       | 49        | 18.64                 | 18.59                    | 18.60                  |                     |          |
| 20               | 256QAM     | 1       | 99        | 18.57                 | 18.56                    | 18.63                  |                     |          |
| 20               | 256QAM     | 50      | 0         | 18.68                 | 18.58                    | 18.63                  | 20                  | 1.7      |
| 20               | 256QAM     | 50      | 24        | 18.57                 | 18.51                    | 18.51                  |                     |          |
| 20               | 256QAM     | 50      | 50        | 18.55                 | 18.57                    | 18.64                  |                     |          |
| 20               | 256QAM     | 100     | 0         | 18.69                 | 18.69                    | 18.66                  |                     |          |
| Channel          |            |         |           | 18675                 | 18900                    | 19125                  |                     |          |
| Frequency (MHz)  |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |
| 15               | QPSK       | 1       | 0         | 20.80                 | 20.89                    | 20.76                  | 21.7                | 0        |
| 15               | QPSK       | 1       | 37        | 20.78                 | 20.84                    | 20.86                  |                     |          |
| 15               | QPSK       | 1       | 74        | 20.79                 | 20.87                    | 20.76                  |                     |          |
| 15               | QPSK       | 36      | 0         | 20.70                 | 20.82                    | 20.76                  | 21.7                | 0        |
| 15               | QPSK       | 36      | 20        | 20.68                 | 20.84                    | 20.82                  |                     |          |
| 15               | QPSK       | 36      | 39        | 20.75                 | 20.72                    | 20.67                  |                     |          |
| 15               | QPSK       | 75      | 0         | 20.72                 | 20.77                    | 20.73                  |                     |          |
| 15               | 16QAM      | 1       | 0         | 20.75                 | 20.79                    | 20.69                  | 21.7                | 0        |
| 15               | 16QAM      | 1       | 37        | 20.74                 | 20.76                    | 20.82                  |                     |          |
| 15               | 16QAM      | 1       | 74        | 20.69                 | 20.78                    | 20.75                  |                     |          |



|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 16QAM  | 36 | 0  | 20.70 | 20.85 | 20.79 | 21.7                   | 0           |
| 15              | 16QAM  | 36 | 20 | 20.72 | 20.81 | 20.87 |                        |             |
| 15              | 16QAM  | 36 | 39 | 20.78 | 20.75 | 20.76 |                        |             |
| 15              | 16QAM  | 75 | 0  | 20.75 | 20.83 | 20.68 | 21.7                   | 0           |
| 15              | 64QAM  | 1  | 0  | 20.75 | 20.86 | 20.73 |                        |             |
| 15              | 64QAM  | 1  | 37 | 20.70 | 20.81 | 20.86 |                        |             |
| 15              | 64QAM  | 1  | 74 | 20.77 | 20.75 | 20.78 | 21.7                   | 0           |
| 15              | 64QAM  | 36 | 0  | 20.32 | 20.49 | 20.50 |                        |             |
| 15              | 64QAM  | 36 | 20 | 20.62 | 20.63 | 20.58 |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.43 | 20.52 | 20.38 | 21.7                   | 0           |
| 15              | 64QAM  | 75 | 0  | 20.43 | 20.49 | 20.44 |                        |             |
| 15              | 256QAM | 1  | 0  | 18.57 | 18.38 | 18.42 |                        |             |
| 15              | 256QAM | 1  | 37 | 18.57 | 18.41 | 18.42 | 20                     | 1.7         |
| 15              | 256QAM | 1  | 74 | 18.46 | 18.53 | 18.60 |                        |             |
| 15              | 256QAM | 36 | 0  | 18.53 | 18.45 | 18.58 |                        |             |
| 15              | 256QAM | 36 | 20 | 18.54 | 18.35 | 18.45 | 20                     | 1.7         |
| 15              | 256QAM | 36 | 39 | 18.45 | 18.44 | 18.46 |                        |             |
| 15              | 256QAM | 75 | 0  | 18.58 | 18.55 | 18.56 |                        |             |
| Channel         |        |    |    | 18650 | 18900 | 19150 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1855  | 1880  | 1905  |                        |             |
| 10              | QPSK   | 1  | 0  | 20.79 | 20.86 | 20.82 | 21.7                   | 0           |
| 10              | QPSK   | 1  | 25 | 20.77 | 20.84 | 20.90 |                        |             |
| 10              | QPSK   | 1  | 49 | 20.85 | 20.82 | 20.80 |                        |             |
| 10              | QPSK   | 25 | 0  | 20.75 | 20.83 | 20.72 | 21.7                   | 0           |
| 10              | QPSK   | 25 | 12 | 20.62 | 20.82 | 20.77 |                        |             |
| 10              | QPSK   | 25 | 25 | 20.73 | 20.72 | 20.73 |                        |             |
| 10              | QPSK   | 50 | 0  | 20.71 | 20.80 | 20.73 | 21.7                   | 0           |
| 10              | 16QAM  | 1  | 0  | 20.75 | 20.77 | 20.69 |                        |             |
| 10              | 16QAM  | 1  | 25 | 20.75 | 20.79 | 20.79 |                        |             |
| 10              | 16QAM  | 1  | 49 | 20.73 | 20.81 | 20.76 | 21.7                   | 0           |
| 10              | 16QAM  | 25 | 0  | 20.70 | 20.80 | 20.77 |                        |             |
| 10              | 16QAM  | 25 | 12 | 20.70 | 20.83 | 20.82 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.77 | 20.78 | 20.78 | 21.7                   | 0           |
| 10              | 16QAM  | 50 | 0  | 20.74 | 20.78 | 20.70 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.69 | 20.86 | 20.67 |                        |             |
| 10              | 64QAM  | 1  | 25 | 20.70 | 20.79 | 20.88 | 21.7                   | 0           |
| 10              | 64QAM  | 1  | 49 | 20.70 | 20.73 | 20.72 |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.33 | 20.46 | 20.55 |                        |             |
| 10              | 64QAM  | 25 | 12 | 20.51 | 20.60 | 20.57 | 21.7                   | 0           |
| 10              | 64QAM  | 25 | 25 | 20.45 | 20.45 | 20.37 |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.49 | 20.41 | 20.44 |                        |             |
| 10              | 256QAM | 1  | 0  | 18.47 | 18.49 | 18.43 | 20                     | 1.7         |
| 10              | 256QAM | 1  | 25 | 18.62 | 18.47 | 18.57 |                        |             |
| 10              | 256QAM | 1  | 49 | 18.48 | 18.47 | 18.56 |                        |             |
| 10              | 256QAM | 25 | 0  | 18.61 | 18.50 | 18.61 | 20                     | 1.7         |
| 10              | 256QAM | 25 | 12 | 18.51 | 18.45 | 18.48 |                        |             |
| 10              | 256QAM | 25 | 25 | 18.38 | 18.51 | 18.55 |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 10              | 256QAM | 50 | 0  | 18.58  | 18.53 | 18.49  |                        |             |
| Channel         |        |    |    | 18625  | 18900 | 19175  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1852.5 | 1880  | 1907.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 20.79  | 20.90 | 20.79  | 21.7                   | 0           |
| 5               | QPSK   | 1  | 12 | 20.73  | 20.90 | 20.90  |                        |             |
| 5               | QPSK   | 1  | 24 | 20.84  | 20.86 | 20.81  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.70  | 20.81 | 20.76  | 21.7                   | 0           |
| 5               | QPSK   | 12 | 7  | 20.67  | 20.84 | 20.80  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.71  | 20.71 | 20.72  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.71  | 20.77 | 20.74  | 21.7                   | 0           |
| 5               | 16QAM  | 1  | 0  | 20.72  | 20.83 | 20.66  |                        |             |
| 5               | 16QAM  | 1  | 12 | 20.76  | 20.80 | 20.80  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.72  | 20.78 | 20.74  | 21.7                   | 0           |
| 5               | 16QAM  | 12 | 0  | 20.68  | 20.83 | 20.77  |                        |             |
| 5               | 16QAM  | 12 | 7  | 20.72  | 20.81 | 20.79  |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.73  | 20.75 | 20.78  | 21.7                   | 0           |
| 5               | 16QAM  | 25 | 0  | 20.68  | 20.78 | 20.74  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.73  | 20.88 | 20.69  |                        |             |
| 5               | 64QAM  | 1  | 12 | 20.66  | 20.81 | 20.86  | 21.7                   | 0           |
| 5               | 64QAM  | 1  | 24 | 20.73  | 20.77 | 20.73  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.37  | 20.43 | 20.45  |                        |             |
| 5               | 64QAM  | 12 | 7  | 20.56  | 20.61 | 20.58  | 21.7                   | 0           |
| 5               | 64QAM  | 12 | 13 | 20.53  | 20.54 | 20.48  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.34  | 20.39 | 20.38  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.48  | 18.44 | 18.51  | 20                     | 1.7         |
| 5               | 256QAM | 1  | 12 | 18.51  | 18.44 | 18.54  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.50  | 18.47 | 18.50  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.65  | 18.49 | 18.51  | 20                     | 1.7         |
| 5               | 256QAM | 12 | 7  | 18.49  | 18.40 | 18.41  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.48  | 18.50 | 18.50  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.58  | 18.59 | 18.52  | Channel                | MPR<br>(dB) |
| Channel         |        |    |    | 18615  | 18900 | 19185  |                        |             |
| Frequency (MHz) |        |    |    | 1851.5 | 1880  | 1908.5 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 3               | QPSK   | 1  | 0  | 20.75  | 20.88 | 20.82  |                        |             |
| 3               | QPSK   | 1  | 8  | 20.78  | 20.83 | 20.87  | 21.7                   | 0           |
| 3               | QPSK   | 1  | 14 | 20.86  | 20.85 | 20.81  |                        |             |
| 3               | QPSK   | 8  | 0  | 20.74  | 20.79 | 20.72  |                        |             |
| 3               | QPSK   | 8  | 4  | 20.63  | 20.80 | 20.77  | 21.7                   | 0           |
| 3               | QPSK   | 8  | 7  | 20.76  | 20.68 | 20.73  |                        |             |
| 3               | QPSK   | 15 | 0  | 20.75  | 20.76 | 20.77  |                        |             |
| 3               | 16QAM  | 1  | 0  | 20.78  | 20.83 | 20.71  | 21.7                   | 0           |
| 3               | 16QAM  | 1  | 8  | 20.76  | 20.79 | 20.77  |                        |             |
| 3               | 16QAM  | 1  | 14 | 20.69  | 20.79 | 20.78  |                        |             |
| 3               | 16QAM  | 8  | 0  | 20.70  | 20.86 | 20.73  | 21.7                   | 0           |
| 3               | 16QAM  | 8  | 4  | 20.70  | 20.84 | 20.80  |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.78  | 20.78 | 20.78  |                        |             |
| 3               | 16QAM  | 15 | 0  | 20.70  | 20.83 | 20.69  | Channel                | MPR<br>(dB) |
| Channel         |        |    |    | 18615  | 18900 | 19185  |                        |             |
| Frequency (MHz) |        |    |    | 1851.5 | 1880  | 1908.5 | Tune-up limit<br>(dBm) | MPR<br>(dB) |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 3               | 64QAM  | 1  | 0  | 20.76  | 20.81 | 20.71  | 21.7                   | 0           |
| 3               | 64QAM  | 1  | 8  | 20.68  | 20.74 | 20.86  |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.76  | 20.77 | 20.75  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.31  | 20.40 | 20.55  | 21.7                   | 0           |
| 3               | 64QAM  | 8  | 4  | 20.60  | 20.67 | 20.59  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.54  | 20.41 | 20.44  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.43  | 20.40 | 20.51  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.49  | 18.44 | 18.43  | 20                     | 1.7         |
| 3               | 256QAM | 1  | 8  | 18.49  | 18.55 | 18.51  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.48  | 18.53 | 18.50  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.62  | 18.42 | 18.57  | 20                     | 1.7         |
| 3               | 256QAM | 8  | 4  | 18.46  | 18.49 | 18.35  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.51  | 18.51 | 18.51  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.62  | 18.64 | 18.54  |                        |             |
| Channel         |        |    |    | 18607  | 18900 | 19193  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1850.7 | 1880  | 1909.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 20.80  | 20.85 | 20.77  | 21.7                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 20.74  | 20.84 | 20.90  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 20.85  | 20.87 | 20.78  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 20.77  | 20.88 | 20.79  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 20.77  | 20.89 | 20.78  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 20.76  | 20.84 | 20.87  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 20.79  | 20.85 | 20.77  | 21.7                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 20.78  | 20.83 | 20.72  | 21.7                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 20.63  | 20.77 | 20.77  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 20.72  | 20.71 | 20.66  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 20.71  | 20.73 | 20.77  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 20.70  | 20.76 | 20.71  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 20.73  | 20.77 | 20.80  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 20.74  | 20.74 | 20.75  | 21.7                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 20.70  | 20.82 | 20.72  | 21.7                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 20.73  | 20.83 | 20.81  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 20.73  | 20.78 | 20.78  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 20.72  | 20.78 | 20.72  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 20.75  | 20.88 | 20.73  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 20.63  | 20.78 | 20.89  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.75  | 20.73 | 20.75  | 21.7                   | 0           |
| 1.4             | 256QAM | 1  | 0  | 18.60  | 18.47 | 18.48  | 20                     | 1.7         |
| 1.4             | 256QAM | 1  | 3  | 18.56  | 18.41 | 18.46  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.52  | 18.48 | 18.48  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.62  | 18.42 | 18.50  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.42  | 18.39 | 18.37  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.51  | 18.52 | 18.51  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.55  | 18.58 | 18.60  | 20                     | 1.7         |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 20050                 | 20175                    | 20300                  |                     |          |
| Frequency (MHz) |            |         |           | 1720                  | 1732.5                   | 1745                   |                     |          |
| 20              | QPSK       | 1       | 0         | 21.20                 | 21.41                    | 21.22                  | 22.1                | 0        |
| 20              | QPSK       | 1       | 49        | 21.19                 | 21.24                    | 21.29                  |                     |          |
| 20              | QPSK       | 1       | 99        | 21.29                 | 21.36                    | 21.18                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.00                 | 21.13                    | 21.04                  | 22.1                | 0        |
| 20              | QPSK       | 50      | 24        | 20.99                 | 21.08                    | 21.06                  |                     |          |
| 20              | QPSK       | 50      | 50        | 20.99                 | 20.94                    | 21.04                  |                     |          |
| 20              | QPSK       | 100     | 0         | 20.95                 | 21.01                    | 20.91                  | 22.1                | 0        |
| 20              | 16QAM      | 1       | 0         | 20.52                 | 20.64                    | 20.41                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 20.56                 | 20.50                    | 20.43                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 20.32                 | 20.53                    | 20.29                  | 22.1                | 0        |
| 20              | 16QAM      | 50      | 0         | 21.22                 | 21.42                    | 21.15                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 21.17                 | 21.25                    | 21.30                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 21.23                 | 21.31                    | 21.17                  | 22.1                | 0        |
| 20              | 16QAM      | 100     | 0         | 21.25                 | 21.33                    | 21.19                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 21.25                 | 21.42                    | 21.16                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 21.10                 | 21.17                    | 21.22                  | 22.1                | 0        |
| 20              | 64QAM      | 1       | 99        | 21.28                 | 21.31                    | 21.23                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 20.68                 | 20.59                    | 20.51                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 20.64                 | 20.63                    | 20.62                  | 22                  | 0.1      |
| 20              | 64QAM      | 50      | 50        | 20.46                 | 20.55                    | 20.64                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 20.75                 | 20.71                    | 20.75                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 18.73                 | 18.73                    | 18.75                  | 20                  | 2.1      |
| 20              | 256QAM     | 1       | 49        | 18.54                 | 18.55                    | 18.54                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 18.69                 | 18.73                    | 18.81                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 18.59                 | 18.49                    | 18.51                  | 20                  | 2.1      |
| 20              | 256QAM     | 50      | 24        | 18.52                 | 18.51                    | 18.61                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 18.80                 | 18.70                    | 18.60                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 18.54                 | 18.52                    | 18.54                  |                     |          |
| Channel         |            |         |           | 20025                 | 20175                    | 20325                  |                     |          |
| Frequency (MHz) |            |         |           | 1717.5                | 1732.5                   | 1747.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 21.16                 | 21.38                    | 21.14                  | 22.1                | 0        |
| 15              | QPSK       | 1       | 37        | 21.14                 | 21.13                    | 21.25                  |                     |          |
| 15              | QPSK       | 1       | 74        | 21.25                 | 21.33                    | 21.12                  |                     |          |
| 15              | QPSK       | 36      | 0         | 20.97                 | 21.07                    | 21.01                  | 22.1                | 0        |
| 15              | QPSK       | 36      | 20        | 20.89                 | 20.98                    | 20.95                  |                     |          |
| 15              | QPSK       | 36      | 39        | 20.88                 | 20.85                    | 21.01                  |                     |          |
| 15              | QPSK       | 75      | 0         | 20.88                 | 20.97                    | 20.81                  | 22.1                | 0        |
| 15              | 16QAM      | 1       | 0         | 20.40                 | 20.55                    | 20.32                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 20.43                 | 20.47                    | 20.35                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 20.29                 | 20.46                    | 20.17                  | 22.1                | 0        |
| 15              | 16QAM      | 36      | 0         | 21.11                 | 21.35                    | 21.09                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 21.08                 | 21.15                    | 21.18                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 21.20                 | 21.18                    | 21.05                  |                     |          |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 16QAM  | 75 | 0  | 21.14  | 21.29  | 21.08  |                        |             |
| 15              | 64QAM  | 1  | 0  | 21.22  | 21.28  | 21.11  | 22.1                   | 0           |
| 15              | 64QAM  | 1  | 37 | 20.97  | 21.09  | 21.08  |                        |             |
| 15              | 64QAM  | 1  | 74 | 21.16  | 21.21  | 21.21  |                        |             |
| 15              | 64QAM  | 36 | 0  | 20.52  | 20.52  | 20.48  | 22                     | 0.1         |
| 15              | 64QAM  | 36 | 20 | 20.55  | 20.56  | 20.54  |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.39  | 20.41  | 20.61  |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.64  | 20.57  | 20.64  | 20                     | 2.1         |
| 15              | 256QAM | 1  | 0  | 18.65  | 18.56  | 18.69  |                        |             |
| 15              | 256QAM | 1  | 37 | 18.52  | 18.52  | 18.47  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.59  | 18.57  | 18.71  | 20                     | 2.1         |
| 15              | 256QAM | 36 | 0  | 18.53  | 18.36  | 18.35  |                        |             |
| 15              | 256QAM | 36 | 20 | 18.38  | 18.44  | 18.53  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.69  | 18.54  | 18.42  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.37  | 18.43  | 18.43  |                        |             |
| Channel         |        |    |    | 20000  | 20175  | 20350  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1715   | 1732.5 | 1750   |                        |             |
| 10              | QPSK   | 1  | 0  | 21.11  | 21.37  | 21.10  | 22.1                   | 0           |
| 10              | QPSK   | 1  | 25 | 21.12  | 21.14  | 21.19  |                        |             |
| 10              | QPSK   | 1  | 49 | 21.20  | 21.27  | 21.05  |                        |             |
| 10              | QPSK   | 25 | 0  | 20.88  | 21.04  | 20.98  | 22.1                   | 0           |
| 10              | QPSK   | 25 | 12 | 20.89  | 21.03  | 21.00  |                        |             |
| 10              | QPSK   | 25 | 25 | 20.91  | 20.88  | 21.01  |                        |             |
| 10              | QPSK   | 50 | 0  | 20.87  | 20.90  | 20.84  | 22.1                   | 0           |
| 10              | 16QAM  | 1  | 0  | 20.44  | 20.54  | 20.30  |                        |             |
| 10              | 16QAM  | 1  | 25 | 20.52  | 20.47  | 20.30  |                        |             |
| 10              | 16QAM  | 1  | 49 | 20.26  | 20.44  | 20.25  | 22.1                   | 0           |
| 10              | 16QAM  | 25 | 0  | 21.11  | 21.35  | 21.04  |                        |             |
| 10              | 16QAM  | 25 | 12 | 21.07  | 21.12  | 21.25  |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.10  | 21.22  | 21.04  | 22.1                   | 0           |
| 10              | 16QAM  | 50 | 0  | 21.15  | 21.23  | 21.08  |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.21  | 21.30  | 21.12  |                        |             |
| 10              | 64QAM  | 1  | 25 | 20.97  | 21.06  | 21.19  | 22.1                   | 0           |
| 10              | 64QAM  | 1  | 49 | 21.18  | 21.19  | 21.10  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.52  | 20.48  | 20.41  |                        |             |
| 10              | 64QAM  | 25 | 12 | 20.53  | 20.60  | 20.45  | 22                     | 0.1         |
| 10              | 64QAM  | 25 | 25 | 20.29  | 20.49  | 20.46  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.72  | 20.54  | 20.69  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.69  | 18.58  | 18.59  | 20                     | 2.1         |
| 10              | 256QAM | 1  | 25 | 18.51  | 18.51  | 18.42  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.54  | 18.65  | 18.63  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.45  | 18.35  | 18.38  | 20                     | 2.1         |
| 10              | 256QAM | 25 | 12 | 18.36  | 18.43  | 18.58  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.68  | 18.54  | 18.54  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.50  | 18.47  | 18.38  |                        |             |
| Channel         |        |    |    | 19975  | 20175  | 20375  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1712.5 | 1732.5 | 1752.5 |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 5               | QPSK   | 1  | 0  | 21.11  | 21.27  | 21.09  | 22.1                   | 0           |
| 5               | QPSK   | 1  | 12 | 21.06  | 21.19  | 21.16  |                        |             |
| 5               | QPSK   | 1  | 24 | 21.26  | 21.31  | 21.06  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.94  | 21.03  | 20.97  | 22.1                   | 0           |
| 5               | QPSK   | 12 | 7  | 20.96  | 21.03  | 20.98  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.93  | 20.82  | 20.92  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.92  | 20.96  | 20.84  |                        |             |
| 5               | 16QAM  | 1  | 0  | 20.41  | 20.54  | 20.35  | 22.1                   | 0           |
| 5               | 16QAM  | 1  | 12 | 20.49  | 20.42  | 20.36  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.28  | 20.47  | 20.15  |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.11  | 21.30  | 21.05  | 22.1                   | 0           |
| 5               | 16QAM  | 12 | 7  | 21.06  | 21.13  | 21.27  |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.13  | 21.27  | 21.06  |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.18  | 21.27  | 21.06  |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.12  | 21.37  | 21.13  | 22.1                   | 0           |
| 5               | 64QAM  | 1  | 12 | 20.98  | 21.07  | 21.13  |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.25  | 21.18  | 21.12  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.61  | 20.41  | 20.42  | 22                     | 0.1         |
| 5               | 64QAM  | 12 | 7  | 20.46  | 20.48  | 20.52  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.29  | 20.53  | 20.51  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.57  | 20.55  | 20.65  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.68  | 18.61  | 18.59  | 20                     | 2.1         |
| 5               | 256QAM | 1  | 12 | 18.49  | 18.45  | 18.47  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.57  | 18.67  | 18.64  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.54  | 18.44  | 18.40  | 20                     | 2.1         |
| 5               | 256QAM | 12 | 7  | 18.40  | 18.41  | 18.58  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.62  | 18.63  | 18.44  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.37  | 18.48  | 18.48  |                        |             |
| Channel         |        |    |    | 19965  | 20175  | 20385  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1711.5 | 1732.5 | 1753.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 21.13  | 21.31  | 21.17  | 22.1                   | 0           |
| 3               | QPSK   | 1  | 8  | 21.08  | 21.20  | 21.23  |                        |             |
| 3               | QPSK   | 1  | 14 | 21.26  | 21.29  | 21.15  |                        |             |
| 3               | QPSK   | 8  | 0  | 20.95  | 21.05  | 20.91  | 22.1                   | 0           |
| 3               | QPSK   | 8  | 4  | 20.87  | 20.98  | 20.96  |                        |             |
| 3               | QPSK   | 8  | 7  | 20.86  | 20.90  | 20.97  |                        |             |
| 3               | QPSK   | 15 | 0  | 20.91  | 20.89  | 20.80  |                        |             |
| 3               | 16QAM  | 1  | 0  | 20.49  | 20.56  | 20.31  | 22.1                   | 0           |
| 3               | 16QAM  | 1  | 8  | 20.49  | 20.44  | 20.35  |                        |             |
| 3               | 16QAM  | 1  | 14 | 20.22  | 20.44  | 20.19  |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.14  | 21.38  | 21.05  | 22.1                   | 0           |
| 3               | 16QAM  | 8  | 4  | 21.07  | 21.17  | 21.27  |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.16  | 21.18  | 21.09  |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.23  | 21.24  | 21.12  |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.22  | 21.31  | 21.14  | 22.1                   | 0           |
| 3               | 64QAM  | 1  | 8  | 21.04  | 21.13  | 21.12  |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.26  | 21.18  | 21.10  |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 3               | 64QAM  | 8  | 0  | 20.55  | 20.45  | 20.45  | 22                     | 0.1         |
| 3               | 64QAM  | 8  | 4  | 20.55  | 20.46  | 20.58  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.41  | 20.53  | 20.57  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.68  | 20.58  | 20.68  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.68  | 18.64  | 18.57  | 20                     | 2.1         |
| 3               | 256QAM | 1  | 8  | 18.40  | 18.51  | 18.37  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.62  | 18.67  | 18.74  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.44  | 18.42  | 18.34  | 20                     | 2.1         |
| 3               | 256QAM | 8  | 4  | 18.43  | 18.42  | 18.46  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.65  | 18.61  | 18.53  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.42  | 18.47  | 18.37  |                        |             |
| Channel         |        |    |    | 19957  | 20175  | 20393  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1710.7 | 1732.5 | 1754.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 21.18  | 21.36  | 21.13  | 22.1                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 21.08  | 21.22  | 21.22  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 21.17  | 21.27  | 21.05  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 20.87  | 21.04  | 20.90  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 20.96  | 20.99  | 20.97  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 20.89  | 20.87  | 20.96  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 20.90  | 20.94  | 20.88  | 22.1                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 20.42  | 20.52  | 20.37  | 22.1                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 20.47  | 20.47  | 20.32  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 20.20  | 20.48  | 20.18  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.14  | 21.39  | 21.02  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 21.07  | 21.15  | 21.20  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 21.12  | 21.27  | 21.06  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 21.21  | 21.30  | 21.15  | 21.5                   | 0.6         |
| 1.4             | 64QAM  | 1  | 0  | 21.12  | 21.38  | 21.08  | 21.5                   | 0.6         |
| 1.4             | 64QAM  | 1  | 3  | 20.98  | 21.07  | 21.11  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 21.11  | 21.28  | 21.18  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 21.07  | 21.29  | 21.16  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 21.11  | 21.28  | 21.17  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 21.29  | 21.28  | 21.17  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.54  | 20.42  | 20.48  | 22                     | 0.1         |
| 1.4             | 256QAM | 1  | 0  | 18.70  | 18.63  | 18.58  | 20                     | 2.1         |
| 1.4             | 256QAM | 1  | 3  | 18.45  | 18.46  | 18.49  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.64  | 18.59  | 18.64  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.48  | 18.43  | 18.35  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.38  | 18.38  | 18.43  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.74  | 18.62  | 18.43  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.47  | 18.44  | 18.49  | 20                     | 2.1         |

| Band 25 Ant2 DSI5 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 26140                    | 26340                       | 26590                     |                        |             |
| Frequency (MHz)   |            |         |           | 1860                     | 1880                        | 1905                      |                        |             |

|                 |        |     |    |        |       |        |                        |             |
|-----------------|--------|-----|----|--------|-------|--------|------------------------|-------------|
| 20              | QPSK   | 1   | 0  | 20.87  | 21.03 | 20.98  | 21.7                   | 0           |
| 20              | QPSK   | 1   | 49 | 20.87  | 20.91 | 20.97  |                        |             |
| 20              | QPSK   | 1   | 99 | 20.88  | 20.91 | 20.94  |                        |             |
| 20              | QPSK   | 50  | 0  | 20.73  | 20.96 | 20.91  | 21.7                   | 0           |
| 20              | QPSK   | 50  | 24 | 20.81  | 20.79 | 20.85  |                        |             |
| 20              | QPSK   | 50  | 50 | 20.79  | 20.87 | 20.89  |                        |             |
| 20              | QPSK   | 100 | 0  | 20.77  | 20.98 | 20.90  |                        |             |
| 20              | 16QAM  | 1   | 0  | 20.78  | 20.94 | 20.87  | 21.7                   | 0           |
| 20              | 16QAM  | 1   | 49 | 20.81  | 20.88 | 20.95  |                        |             |
| 20              | 16QAM  | 1   | 99 | 20.85  | 20.81 | 20.84  |                        |             |
| 20              | 16QAM  | 50  | 0  | 20.83  | 20.97 | 20.92  | 21.7                   | 0           |
| 20              | 16QAM  | 50  | 24 | 20.85  | 20.87 | 20.87  |                        |             |
| 20              | 16QAM  | 50  | 50 | 20.80  | 20.81 | 20.89  |                        |             |
| 20              | 16QAM  | 100 | 0  | 20.84  | 20.95 | 20.94  |                        |             |
| 20              | 64QAM  | 1   | 0  | 20.82  | 20.98 | 20.94  | 21.7                   | 0           |
| 20              | 64QAM  | 1   | 49 | 20.82  | 20.88 | 20.88  |                        |             |
| 20              | 64QAM  | 1   | 99 | 20.85  | 20.89 | 20.87  |                        |             |
| 20              | 64QAM  | 50  | 0  | 20.80  | 20.72 | 20.66  | 21.7                   | 0           |
| 20              | 64QAM  | 50  | 24 | 20.79  | 20.69 | 20.70  |                        |             |
| 20              | 64QAM  | 50  | 50 | 20.84  | 20.77 | 20.74  |                        |             |
| 20              | 64QAM  | 100 | 0  | 20.64  | 20.73 | 20.78  |                        |             |
| 20              | 256QAM | 1   | 0  | 18.79  | 18.87 | 18.82  | 20                     | 1.7         |
| 20              | 256QAM | 1   | 49 | 18.71  | 18.74 | 18.78  |                        |             |
| 20              | 256QAM | 1   | 99 | 18.61  | 18.68 | 18.77  |                        |             |
| 20              | 256QAM | 50  | 0  | 18.64  | 18.63 | 18.61  | 20                     | 1.7         |
| 20              | 256QAM | 50  | 24 | 18.60  | 18.67 | 18.76  |                        |             |
| 20              | 256QAM | 50  | 50 | 18.56  | 18.53 | 18.43  |                        |             |
| 20              | 256QAM | 100 | 0  | 18.70  | 18.70 | 18.79  |                        |             |
| Channel         |        |     |    | 26115  | 26340 | 26615  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 1857.5 | 1880  | 1907.5 |                        |             |
| 15              | QPSK   | 1   | 0  | 20.82  | 20.96 | 20.88  | 21.7                   | 0           |
| 15              | QPSK   | 1   | 37 | 20.84  | 20.84 | 20.92  |                        |             |
| 15              | QPSK   | 1   | 74 | 20.83  | 20.89 | 20.86  |                        |             |
| 15              | QPSK   | 36  | 0  | 20.65  | 20.88 | 20.84  | 21.7                   | 0           |
| 15              | QPSK   | 36  | 20 | 20.78  | 20.70 | 20.81  |                        |             |
| 15              | QPSK   | 36  | 39 | 20.71  | 20.78 | 20.87  |                        |             |
| 15              | QPSK   | 75  | 0  | 20.69  | 20.89 | 20.88  |                        |             |
| 15              | 16QAM  | 1   | 0  | 20.75  | 20.91 | 20.83  | 21.7                   | 0           |
| 15              | 16QAM  | 1   | 37 | 20.77  | 20.84 | 20.87  |                        |             |
| 15              | 16QAM  | 1   | 74 | 20.79  | 20.74 | 20.75  |                        |             |
| 15              | 16QAM  | 36  | 0  | 20.77  | 20.92 | 20.89  | 21.7                   | 0           |
| 15              | 16QAM  | 36  | 20 | 20.77  | 20.81 | 20.78  |                        |             |
| 15              | 16QAM  | 36  | 39 | 20.77  | 20.74 | 20.83  |                        |             |
| 15              | 16QAM  | 75  | 0  | 20.79  | 20.88 | 20.85  |                        |             |
| 15              | 64QAM  | 1   | 0  | 20.75  | 20.95 | 20.87  | 21.7                   | 0           |
| 15              | 64QAM  | 1   | 37 | 20.80  | 20.81 | 20.85  |                        |             |
| 15              | 64QAM  | 1   | 74 | 20.80  | 20.86 | 20.85  |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 64QAM  | 36 | 0  | 20.64  | 20.58 | 20.58  | 21.7                   | 0           |
| 15              | 64QAM  | 36 | 20 | 20.66  | 20.65 | 20.64  |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.70  | 20.73 | 20.59  |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.58  | 20.57 | 20.75  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.65  | 18.78 | 18.79  | 20                     | 1.7         |
| 15              | 256QAM | 1  | 37 | 18.67  | 18.60 | 18.66  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.49  | 18.56 | 18.70  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.59  | 18.58 | 18.54  | 20                     | 1.7         |
| 15              | 256QAM | 36 | 20 | 18.53  | 18.57 | 18.65  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.40  | 18.40 | 18.32  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.57  | 18.67 | 18.70  |                        |             |
| Channel         |        |    |    | 26090  | 26340 | 26640  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1855   | 1880  | 1910   |                        |             |
| 10              | QPSK   | 1  | 0  | 20.79  | 20.96 | 20.95  | 21.7                   | 0           |
| 10              | QPSK   | 1  | 25 | 20.82  | 20.81 | 20.90  |                        |             |
| 10              | QPSK   | 1  | 49 | 20.81  | 20.85 | 20.87  |                        |             |
| 10              | QPSK   | 25 | 0  | 20.64  | 20.89 | 20.83  | 21.7                   | 0           |
| 10              | QPSK   | 25 | 12 | 20.74  | 20.77 | 20.81  |                        |             |
| 10              | QPSK   | 25 | 25 | 20.73  | 20.82 | 20.80  |                        |             |
| 10              | QPSK   | 50 | 0  | 20.71  | 20.89 | 20.81  |                        |             |
| 10              | 16QAM  | 1  | 0  | 20.73  | 20.88 | 20.85  | 21.7                   | 0           |
| 10              | 16QAM  | 1  | 25 | 20.72  | 20.79 | 20.92  |                        |             |
| 10              | 16QAM  | 1  | 49 | 20.82  | 20.76 | 20.76  |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.75  | 20.93 | 20.88  | 21.7                   | 0           |
| 10              | 16QAM  | 25 | 12 | 20.80  | 20.77 | 20.82  |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.77  | 20.76 | 20.85  |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.80  | 20.89 | 20.90  |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.79  | 20.92 | 20.90  | 21.7                   | 0           |
| 10              | 64QAM  | 1  | 25 | 20.79  | 20.81 | 20.83  |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.76  | 20.83 | 20.79  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.78  | 20.58 | 20.63  | 21.7                   | 0           |
| 10              | 64QAM  | 25 | 12 | 20.68  | 20.52 | 20.61  |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.74  | 20.60 | 20.69  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.59  | 20.60 | 20.63  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.69  | 18.81 | 18.76  | 20                     | 1.7         |
| 10              | 256QAM | 1  | 25 | 18.66  | 18.58 | 18.74  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.45  | 18.63 | 18.69  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.61  | 18.59 | 18.52  | 20                     | 1.7         |
| 10              | 256QAM | 25 | 12 | 18.54  | 18.59 | 18.65  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.45  | 18.40 | 18.38  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.61  | 18.57 | 18.71  |                        |             |
| Channel         |        |    |    | 26065  | 26340 | 26665  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1852.5 | 1880  | 1912.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 20.77  | 20.95 | 20.89  | 21.7                   | 0           |
| 5               | QPSK   | 1  | 12 | 20.84  | 20.87 | 20.87  |                        |             |
| 5               | QPSK   | 1  | 24 | 20.79  | 20.89 | 20.90  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.70  | 20.91 | 20.85  | 21.7                   | 0           |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 5               | QPSK   | 12 | 7  | 20.78  | 20.76 | 20.79  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.76  | 20.78 | 20.79  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.71  | 20.95 | 20.86  |                        |             |
| 5               | 16QAM  | 1  | 0  | 20.68  | 20.89 | 20.78  | 21.7                   | 0           |
| 5               | 16QAM  | 1  | 12 | 20.74  | 20.81 | 20.87  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.83  | 20.78 | 20.82  |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.76  | 20.94 | 20.85  | 21.7                   | 0           |
| 5               | 16QAM  | 12 | 7  | 20.76  | 20.78 | 20.83  |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.71  | 20.74 | 20.79  |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.74  | 20.92 | 20.88  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.78  | 20.93 | 20.90  | 21.7                   | 0           |
| 5               | 64QAM  | 1  | 12 | 20.78  | 20.84 | 20.82  |                        |             |
| 5               | 64QAM  | 1  | 24 | 20.76  | 20.83 | 20.83  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.71  | 20.59 | 20.51  | 21.7                   | 0           |
| 5               | 64QAM  | 12 | 7  | 20.64  | 20.64 | 20.63  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.68  | 20.75 | 20.68  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.53  | 20.68 | 20.70  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.67  | 18.83 | 18.68  | 20                     | 1.7         |
| 5               | 256QAM | 1  | 12 | 18.65  | 18.69 | 18.63  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.49  | 18.53 | 18.67  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.47  | 18.46 | 18.52  | 20                     | 1.7         |
| 5               | 256QAM | 12 | 7  | 18.46  | 18.61 | 18.66  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.53  | 18.35 | 18.26  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.62  | 18.52 | 18.62  |                        |             |
| Channel         |        |    |    | 26055  | 26340 | 26675  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1851.5 | 1880  | 1913.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 20.80  | 21.00 | 20.89  | 21.7                   | 0           |
| 3               | QPSK   | 1  | 8  | 20.80  | 20.88 | 20.88  |                        |             |
| 3               | QPSK   | 1  | 14 | 20.83  | 20.87 | 20.90  |                        |             |
| 3               | QPSK   | 8  | 0  | 20.65  | 20.90 | 20.83  | 21.7                   | 0           |
| 3               | QPSK   | 8  | 4  | 20.76  | 20.74 | 20.79  |                        |             |
| 3               | QPSK   | 8  | 7  | 20.76  | 20.83 | 20.80  |                        |             |
| 3               | QPSK   | 15 | 0  | 20.70  | 20.93 | 20.85  |                        |             |
| 3               | 16QAM  | 1  | 0  | 20.72  | 20.86 | 20.83  | 21.7                   | 0           |
| 3               | 16QAM  | 1  | 8  | 20.75  | 20.80 | 20.89  |                        |             |
| 3               | 16QAM  | 1  | 14 | 20.77  | 20.78 | 20.74  |                        |             |
| 3               | 16QAM  | 8  | 0  | 20.80  | 20.89 | 20.84  | 21.7                   | 0           |
| 3               | 16QAM  | 8  | 4  | 20.83  | 20.82 | 20.85  |                        |             |
| 3               | 16QAM  | 8  | 7  | 20.70  | 20.74 | 20.85  |                        |             |
| 3               | 16QAM  | 15 | 0  | 20.80  | 20.92 | 20.89  |                        |             |
| 3               | 64QAM  | 1  | 0  | 20.79  | 20.93 | 20.90  | 21.7                   | 0           |
| 3               | 64QAM  | 1  | 8  | 20.73  | 20.86 | 20.78  |                        |             |
| 3               | 64QAM  | 1  | 14 | 20.78  | 20.79 | 20.83  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.64  | 20.55 | 20.55  | 21.7                   | 0           |
| 3               | 64QAM  | 8  | 4  | 20.74  | 20.64 | 20.66  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.74  | 20.67 | 20.58  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.51  | 20.67 | 20.62  |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 3               | 256QAM | 1  | 0  | 18.65  | 18.81 | 18.69  | 20                     | 1.7         |
| 3               | 256QAM | 1  | 8  | 18.60  | 18.56 | 18.64  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.51  | 18.53 | 18.70  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.49  | 18.49 | 18.52  | 20                     | 1.7         |
| 3               | 256QAM | 8  | 4  | 18.52  | 18.50 | 18.72  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.46  | 18.50 | 18.25  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.58  | 18.57 | 18.63  |                        |             |
| Channel         |        |    |    | 26047  | 26340 | 26683  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1850.7 | 1880  | 1914.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 20.78  | 20.97 | 20.88  | 21.7                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 20.83  | 20.82 | 20.91  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 20.81  | 20.82 | 20.89  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 20.66  | 20.89 | 20.88  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 20.80  | 20.99 | 20.95  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 20.84  | 20.83 | 20.94  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 20.80  | 20.86 | 20.89  | 21.7                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 20.67  | 20.87 | 20.83  | 21.7                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 20.76  | 20.74 | 20.83  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 20.71  | 20.83 | 20.85  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 20.69  | 20.95 | 20.88  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 20.71  | 20.91 | 20.81  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 20.73  | 20.84 | 20.89  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 20.80  | 20.73 | 20.81  | 21.7                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 20.73  | 20.94 | 20.89  | 21.7                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 20.82  | 20.79 | 20.81  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 20.76  | 20.74 | 20.81  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 20.82  | 20.90 | 20.89  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 20.78  | 20.91 | 20.88  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 20.76  | 20.83 | 20.83  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.79  | 20.81 | 20.78  | 21.7                   | 0           |
| 1.4             | 256QAM | 1  | 0  | 18.67  | 18.85 | 18.79  | 20                     | 1.7         |
| 1.4             | 256QAM | 1  | 3  | 18.67  | 18.60 | 18.74  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.50  | 18.55 | 18.72  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.51  | 18.46 | 18.47  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.54  | 18.58 | 18.73  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.50  | 18.41 | 18.26  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.53  | 18.55 | 18.75  | 20                     | 1.7         |

| Band 66 Ant2 DSI5 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 132072                   | 132322                      | 132572                    |                        |             |
| Frequency (MHz)   |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |
| 20                | QPSK       | 1       | 0         | 21.29                    | 21.45                       | 21.28                     | 22.1                   | 0           |
| 20                | QPSK       | 1       | 49        | 21.23                    | 21.28                       | 21.34                     |                        |             |
| 20                | QPSK       | 1       | 99        | 21.36                    | 21.43                       | 21.26                     |                        |             |
| 20                | QPSK       | 50      | 0         | 21.06                    | 21.15                       | 21.07                     | 22.1                   | 0           |

|                 |        |     |    |        |        |        |                        |             |
|-----------------|--------|-----|----|--------|--------|--------|------------------------|-------------|
| 20              | QPSK   | 50  | 24 | 21.07  | 21.14  | 21.14  |                        |             |
| 20              | QPSK   | 50  | 50 | 21.03  | 21.00  | 21.06  |                        |             |
| 20              | QPSK   | 100 | 0  | 21.02  | 21.11  | 21.00  |                        |             |
| 20              | 16QAM  | 1   | 0  | 20.58  | 20.73  | 20.44  | 22.1                   | 0           |
| 20              | 16QAM  | 1   | 49 | 20.63  | 20.59  | 20.48  |                        |             |
| 20              | 16QAM  | 1   | 99 | 20.37  | 20.57  | 20.36  |                        |             |
| 20              | 16QAM  | 50  | 0  | 21.24  | 21.31  | 21.21  | 22.1                   | 0           |
| 20              | 16QAM  | 50  | 24 | 21.16  | 21.35  | 21.16  |                        |             |
| 20              | 16QAM  | 50  | 50 | 21.12  | 21.20  | 21.26  |                        |             |
| 20              | 16QAM  | 100 | 0  | 21.32  | 21.30  | 21.20  | 22.1                   | 0           |
| 20              | 64QAM  | 1   | 0  | 21.22  | 21.35  | 21.24  |                        |             |
| 20              | 64QAM  | 1   | 49 | 21.14  | 21.20  | 21.25  |                        |             |
| 20              | 64QAM  | 1   | 99 | 21.23  | 21.32  | 21.20  | 22                     | 0.1         |
| 20              | 64QAM  | 50  | 0  | 20.78  | 20.72  | 20.66  |                        |             |
| 20              | 64QAM  | 50  | 24 | 20.79  | 20.74  | 20.66  |                        |             |
| 20              | 64QAM  | 50  | 50 | 20.42  | 20.52  | 20.59  | 20                     | 2.1         |
| 20              | 64QAM  | 100 | 0  | 20.62  | 20.68  | 20.66  |                        |             |
| 20              | 256QAM | 1   | 0  | 18.49  | 18.54  | 18.46  |                        |             |
| 20              | 256QAM | 1   | 49 | 18.69  | 18.61  | 18.61  | 20                     | 2.1         |
| 20              | 256QAM | 1   | 99 | 18.52  | 18.44  | 18.35  |                        |             |
| 20              | 256QAM | 50  | 0  | 18.60  | 18.53  | 18.48  |                        |             |
| 20              | 256QAM | 50  | 24 | 18.65  | 18.62  | 18.70  | 20                     | 2.1         |
| 20              | 256QAM | 50  | 50 | 18.53  | 18.62  | 18.64  |                        |             |
| 20              | 256QAM | 100 | 0  | 18.53  | 18.58  | 18.54  |                        |             |
| Channel         |        |     |    | 132047 | 132322 | 132597 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 1717.5 | 1745   | 1772.5 |                        |             |
| 15              | QPSK   | 1   | 0  | 21.21  | 21.42  | 21.24  | 22.1                   | 0           |
| 15              | QPSK   | 1   | 37 | 21.17  | 21.22  | 21.23  |                        |             |
| 15              | QPSK   | 1   | 74 | 21.26  | 21.37  | 21.13  |                        |             |
| 15              | QPSK   | 36  | 0  | 20.97  | 21.04  | 21.01  | 22.1                   | 0           |
| 15              | QPSK   | 36  | 20 | 20.94  | 21.03  | 21.04  |                        |             |
| 15              | QPSK   | 36  | 39 | 20.98  | 20.87  | 20.96  |                        |             |
| 15              | QPSK   | 75  | 0  | 20.90  | 21.03  | 20.96  | 22.1                   | 0           |
| 15              | 16QAM  | 1   | 0  | 20.47  | 20.66  | 20.38  |                        |             |
| 15              | 16QAM  | 1   | 37 | 20.52  | 20.49  | 20.46  |                        |             |
| 15              | 16QAM  | 1   | 74 | 20.30  | 20.50  | 20.29  | 22.1                   | 0           |
| 15              | 16QAM  | 36  | 0  | 21.11  | 21.28  | 21.18  |                        |             |
| 15              | 16QAM  | 36  | 20 | 21.08  | 21.22  | 21.08  |                        |             |
| 15              | 16QAM  | 36  | 39 | 20.98  | 21.10  | 21.21  | 22.1                   | 0           |
| 15              | 16QAM  | 75  | 0  | 21.22  | 21.28  | 21.06  |                        |             |
| 15              | 64QAM  | 1   | 0  | 21.12  | 21.33  | 21.21  |                        |             |
| 15              | 64QAM  | 1   | 37 | 21.04  | 21.12  | 21.22  | 22                     | 0.1         |
| 15              | 64QAM  | 1   | 74 | 21.13  | 21.24  | 21.17  |                        |             |
| 15              | 64QAM  | 36  | 0  | 20.71  | 20.69  | 20.60  |                        |             |
| 15              | 64QAM  | 36  | 20 | 20.74  | 20.68  | 20.63  | 22                     | 0.1         |
| 15              | 64QAM  | 36  | 39 | 20.24  | 20.39  | 20.54  |                        |             |
| 15              | 64QAM  | 75  | 0  | 20.45  | 20.59  | 20.64  |                        |             |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 256QAM | 1  | 0  | 18.45  | 18.45  | 18.41  | 20                     | 2.1         |
| 15              | 256QAM | 1  | 37 | 18.63  | 18.52  | 18.47  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.45  | 18.37  | 18.27  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.57  | 18.39  | 18.40  | 20                     | 2.1         |
| 15              | 256QAM | 36 | 20 | 18.54  | 18.59  | 18.58  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.39  | 18.53  | 18.57  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.43  | 18.55  | 18.43  |                        |             |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                        |             |
| 10              | QPSK   | 1  | 0  | 21.17  | 21.37  | 21.20  | 22.1                   | 0           |
| 10              | QPSK   | 1  | 25 | 21.19  | 21.22  | 21.29  |                        |             |
| 10              | QPSK   | 1  | 49 | 21.27  | 21.36  | 21.21  |                        |             |
| 10              | QPSK   | 25 | 0  | 20.97  | 21.11  | 20.96  | 22.1                   | 0           |
| 10              | QPSK   | 25 | 12 | 20.93  | 21.11  | 21.05  |                        |             |
| 10              | QPSK   | 25 | 25 | 20.89  | 20.86  | 20.96  |                        |             |
| 10              | QPSK   | 50 | 0  | 20.94  | 21.04  | 20.91  |                        |             |
| 10              | 16QAM  | 1  | 0  | 20.53  | 20.70  | 20.34  | 22.1                   | 0           |
| 10              | 16QAM  | 1  | 25 | 20.54  | 20.48  | 20.39  |                        |             |
| 10              | 16QAM  | 1  | 49 | 20.31  | 20.44  | 20.25  |                        |             |
| 10              | 16QAM  | 25 | 0  | 21.21  | 21.19  | 21.16  | 22.1                   | 0           |
| 10              | 16QAM  | 25 | 12 | 21.10  | 21.21  | 21.06  |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.09  | 21.17  | 21.18  |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.30  | 21.25  | 21.16  |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.16  | 21.31  | 21.11  | 22.1                   | 0           |
| 10              | 64QAM  | 1  | 25 | 21.04  | 21.18  | 21.13  |                        |             |
| 10              | 64QAM  | 1  | 49 | 21.12  | 21.21  | 21.18  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.62  | 20.61  | 20.51  | 22                     | 0.1         |
| 10              | 64QAM  | 25 | 12 | 20.76  | 20.58  | 20.53  |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.38  | 20.47  | 20.49  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.51  | 20.62  | 20.55  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.41  | 18.46  | 18.43  | 20                     | 2.1         |
| 10              | 256QAM | 1  | 25 | 18.59  | 18.53  | 18.47  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.38  | 18.32  | 18.31  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.50  | 18.50  | 18.37  | 20                     | 2.1         |
| 10              | 256QAM | 25 | 12 | 18.58  | 18.49  | 18.56  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.44  | 18.55  | 18.55  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.49  | 18.49  | 18.37  |                        |             |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 21.24  | 21.32  | 21.23  | 22.1                   | 0           |
| 5               | QPSK   | 1  | 12 | 21.16  | 21.25  | 21.22  |                        |             |
| 5               | QPSK   | 1  | 24 | 21.25  | 21.36  | 21.15  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.97  | 21.02  | 21.03  | 22.1                   | 0           |
| 5               | QPSK   | 12 | 7  | 20.97  | 21.06  | 21.12  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.90  | 20.90  | 20.94  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.97  | 21.03  | 20.97  |                        |             |
| 5               | 16QAM  | 1  | 0  | 20.54  | 20.64  | 20.33  | 22.1                   | 0           |

|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 5               | 16QAM  | 1  | 12 | 20.56  | 20.53  | 20.38  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.27  | 20.44  | 20.29  |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.11  | 21.19  | 21.15  |                        |             |
| 5               | 16QAM  | 12 | 7  | 21.04  | 21.27  | 21.09  | 22.1                   | 0           |
| 5               | 16QAM  | 12 | 13 | 21.02  | 21.09  | 21.24  |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.23  | 21.22  | 21.12  |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.13  | 21.29  | 21.10  | 22.1                   | 0           |
| 5               | 64QAM  | 1  | 12 | 21.10  | 21.11  | 21.21  |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.11  | 21.27  | 21.16  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.64  | 20.66  | 20.60  | 22                     | 0.1         |
| 5               | 64QAM  | 12 | 7  | 20.63  | 20.66  | 20.64  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.40  | 20.47  | 20.50  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.59  | 20.60  | 20.62  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.33  | 18.40  | 18.36  | 20                     | 2.1         |
| 5               | 256QAM | 1  | 12 | 18.52  | 18.45  | 18.45  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.36  | 18.30  | 18.20  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.51  | 18.36  | 18.42  | 20                     | 2.1         |
| 5               | 256QAM | 12 | 7  | 18.53  | 18.54  | 18.63  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.48  | 18.59  | 18.60  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.50  | 18.42  | 18.48  |                        |             |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 21.17  | 21.39  | 21.21  | 22.1                   | 0           |
| 3               | QPSK   | 1  | 8  | 21.11  | 21.15  | 21.20  |                        |             |
| 3               | QPSK   | 1  | 14 | 21.30  | 21.39  | 21.15  |                        |             |
| 3               | QPSK   | 8  | 0  | 21.01  | 21.09  | 21.01  | 22.1                   | 0           |
| 3               | QPSK   | 8  | 4  | 21.00  | 21.11  | 21.02  |                        |             |
| 3               | QPSK   | 8  | 7  | 20.93  | 20.96  | 20.93  |                        |             |
| 3               | QPSK   | 15 | 0  | 20.95  | 21.00  | 20.90  |                        |             |
| 3               | 16QAM  | 1  | 0  | 20.53  | 20.69  | 20.33  | 22.1                   | 0           |
| 3               | 16QAM  | 1  | 8  | 20.54  | 20.46  | 20.44  |                        |             |
| 3               | 16QAM  | 1  | 14 | 20.28  | 20.46  | 20.29  |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.14  | 21.28  | 21.17  | 22.1                   | 0           |
| 3               | 16QAM  | 8  | 4  | 21.06  | 21.30  | 21.09  |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.04  | 21.06  | 21.21  |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.24  | 21.26  | 21.15  |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.09  | 21.25  | 21.15  | 22.1                   | 0           |
| 3               | 64QAM  | 1  | 8  | 21.10  | 21.16  | 21.21  |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.15  | 21.29  | 21.07  |                        |             |
| 3               | 64QAM  | 8  | 0  | 20.69  | 20.54  | 20.48  | 22                     | 0.1         |
| 3               | 64QAM  | 8  | 4  | 20.66  | 20.63  | 20.57  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.37  | 20.47  | 20.56  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.49  | 20.62  | 20.64  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.44  | 18.50  | 18.32  | 20                     | 2.1         |
| 3               | 256QAM | 1  | 8  | 18.66  | 18.50  | 18.45  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.39  | 18.28  | 18.19  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.56  | 18.45  | 18.38  | 20                     | 2.1         |



|                 |        |    |   |        |        |        |                        |             |
|-----------------|--------|----|---|--------|--------|--------|------------------------|-------------|
| 3               | 256QAM | 8  | 4 | 18.57  | 18.57  | 18.56  |                        |             |
| 3               | 256QAM | 8  | 7 | 18.42  | 18.46  | 18.61  |                        |             |
| 3               | 256QAM | 15 | 0 | 18.50  | 18.52  | 18.41  |                        |             |
| Channel         |        |    |   | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |   | 1710.7 | 1745   | 1779.3 |                        |             |
| 1.4             | QPSK   | 1  | 0 | 21.23  | 21.34  | 21.24  | 22.1                   | 0           |
| 1.4             | QPSK   | 1  | 3 | 21.17  | 21.22  | 21.29  |                        |             |
| 1.4             | QPSK   | 1  | 5 | 21.30  | 21.40  | 21.19  |                        |             |
| 1.4             | QPSK   | 3  | 0 | 21.23  | 21.39  | 21.21  |                        |             |
| 1.4             | QPSK   | 3  | 1 | 21.20  | 21.17  | 21.25  |                        |             |
| 1.4             | QPSK   | 3  | 3 | 21.31  | 21.33  | 21.17  |                        |             |
| 1.4             | QPSK   | 6  | 0 | 20.97  | 21.10  | 20.96  | 22.1                   | 0           |
| 1.4             | 16QAM  | 1  | 0 | 20.96  | 21.10  | 21.09  | 22.1                   | 0           |
| 1.4             | 16QAM  | 1  | 3 | 20.92  | 20.88  | 21.01  |                        |             |
| 1.4             | 16QAM  | 1  | 5 | 20.90  | 21.03  | 20.92  |                        |             |
| 1.4             | 16QAM  | 3  | 0 | 20.56  | 20.66  | 20.33  |                        |             |
| 1.4             | 16QAM  | 3  | 1 | 20.57  | 20.51  | 20.34  |                        |             |
| 1.4             | 16QAM  | 3  | 3 | 20.29  | 20.53  | 20.29  |                        |             |
| 1.4             | 16QAM  | 6  | 0 | 21.20  | 21.28  | 21.13  | 22.1                   | 0           |
| 1.4             | 64QAM  | 1  | 0 | 21.11  | 21.29  | 21.09  | 22.1                   | 0           |
| 1.4             | 64QAM  | 1  | 3 | 21.08  | 21.13  | 21.16  |                        |             |
| 1.4             | 64QAM  | 1  | 5 | 21.24  | 21.27  | 21.17  |                        |             |
| 1.4             | 64QAM  | 3  | 0 | 21.18  | 21.30  | 21.11  |                        |             |
| 1.4             | 64QAM  | 3  | 1 | 21.07  | 21.06  | 21.18  |                        |             |
| 1.4             | 64QAM  | 3  | 3 | 21.19  | 21.21  | 21.07  |                        |             |
| 1.4             | 64QAM  | 6  | 0 | 20.63  | 20.57  | 20.62  | 22                     | 0.1         |
| 1.4             | 256QAM | 1  | 0 | 18.76  | 18.93  | 18.82  | 20                     | 2.1         |
| 1.4             | 256QAM | 1  | 3 | 18.99  | 18.85  | 18.83  |                        |             |
| 1.4             | 256QAM | 1  | 5 | 18.77  | 18.75  | 18.81  |                        |             |
| 1.4             | 256QAM | 3  | 0 | 18.81  | 18.85  | 18.71  |                        |             |
| 1.4             | 256QAM | 3  | 1 | 18.96  | 18.85  | 18.90  |                        |             |
| 1.4             | 256QAM | 3  | 3 | 18.85  | 18.95  | 18.96  |                        |             |
| 1.4             | 256QAM | 6  | 0 | 18.80  | 18.89  | 18.94  | 20                     | 2.1         |

| Band 7 Ant3 DSI5 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |
| Frequency (MHz)  |            |         |           | 2510                  | 2535                     | 2560                   | 19.4                | 0        |
| 20               | QPSK       | 1       | 0         | 18.78                 | 18.86                    | 18.77                  |                     |          |
| 20               | QPSK       | 1       | 49        | 18.77                 | 18.85                    | 18.80                  |                     |          |
| 20               | QPSK       | 1       | 99        | 18.75                 | 18.77                    | 18.63                  | 19.4                | 0        |
| 20               | QPSK       | 50      | 0         | 18.68                 | 18.79                    | 18.71                  |                     |          |
| 20               | QPSK       | 50      | 24        | 18.72                 | 18.78                    | 18.70                  |                     |          |
| 20               | QPSK       | 50      | 50        | 18.63                 | 18.64                    | 18.57                  |                     |          |
| 20               | QPSK       | 100     | 0         | 18.67                 | 18.76                    | 18.64                  | 19.4                | 0        |
| 20               | 16QAM      | 1       | 0         | 18.69                 | 18.75                    | 18.71                  |                     |          |
| 20               | 16QAM      | 1       | 49        | 18.72                 | 18.77                    | 18.69                  |                     |          |
| 20               | 16QAM      | 1       | 99        | 18.70                 | 18.65                    | 18.58                  | 19.4                | 0        |
| 20               | 16QAM      | 50      | 0         | 18.56                 | 18.77                    | 18.69                  |                     |          |
| 20               | 16QAM      | 50      | 24        | 18.64                 | 18.76                    | 18.60                  |                     |          |
| 20               | 16QAM      | 50      | 50        | 18.52                 | 18.58                    | 18.48                  |                     |          |
| 20               | 16QAM      | 100     | 0         | 18.64                 | 18.67                    | 18.54                  | 19.4                | 0        |
| 20               | 64QAM      | 1       | 0         | 18.75                 | 18.83                    | 18.70                  |                     |          |
| 20               | 64QAM      | 1       | 49        | 18.71                 | 18.80                    | 18.69                  |                     |          |
| 20               | 64QAM      | 1       | 99        | 18.70                 | 18.64                    | 18.53                  |                     |          |
| 20               | 64QAM      | 50      | 0         | 18.47                 | 18.38                    | 18.37                  | 19.4                | 0        |
| 20               | 64QAM      | 50      | 24        | 18.37                 | 18.35                    | 18.26                  |                     |          |
| 20               | 64QAM      | 50      | 50        | 18.66                 | 18.56                    | 18.64                  |                     |          |
| 20               | 64QAM      | 100     | 0         | 18.47                 | 18.51                    | 18.43                  |                     |          |
| 20               | 256QAM     | 1       | 0         | 17.89                 | 17.93                    | 17.95                  | 19                  | 0.4      |
| 20               | 256QAM     | 1       | 49        | 17.78                 | 17.86                    | 17.77                  |                     |          |
| 20               | 256QAM     | 1       | 99        | 17.97                 | 17.90                    | 17.96                  |                     |          |
| 20               | 256QAM     | 50      | 0         | 17.85                 | 17.92                    | 17.96                  | 19                  | 0.4      |
| 20               | 256QAM     | 50      | 24        | 17.78                 | 17.84                    | 17.75                  |                     |          |
| 20               | 256QAM     | 50      | 50        | 17.93                 | 17.91                    | 17.90                  |                     |          |
| 20               | 256QAM     | 100     | 0         | 17.82                 | 17.92                    | 17.93                  |                     |          |
| Channel          |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |
| 15               | QPSK       | 1       | 0         | 18.71                 | 18.83                    | 18.72                  | 19.4                | 0        |
| 15               | QPSK       | 1       | 37        | 18.71                 | 18.82                    | 18.71                  |                     |          |
| 15               | QPSK       | 1       | 74        | 18.70                 | 18.72                    | 18.56                  |                     |          |
| 15               | QPSK       | 36      | 0         | 18.63                 | 18.72                    | 18.68                  | 19.4                | 0        |
| 15               | QPSK       | 36      | 20        | 18.65                 | 18.71                    | 18.61                  |                     |          |
| 15               | QPSK       | 36      | 39        | 18.57                 | 18.59                    | 18.50                  |                     |          |
| 15               | QPSK       | 75      | 0         | 18.60                 | 18.74                    | 18.57                  |                     |          |
| 15               | 16QAM      | 1       | 0         | 18.61                 | 18.72                    | 18.66                  | 19.4                | 0        |
| 15               | 16QAM      | 1       | 37        | 18.65                 | 18.67                    | 18.64                  |                     |          |
| 15               | 16QAM      | 1       | 74        | 18.67                 | 18.57                    | 18.54                  |                     |          |
| 15               | 16QAM      | 36      | 0         | 18.53                 | 18.67                    | 18.62                  | 19.4                | 0        |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 18.59 | 18.68 | 18.52 |                        |             |
| 15              | 16QAM  | 36 | 39 | 18.42 | 18.54 | 18.41 |                        |             |
| 15              | 16QAM  | 75 | 0  | 18.57 | 18.58 | 18.50 |                        |             |
| 15              | 64QAM  | 1  | 0  | 18.69 | 18.78 | 18.65 | 19.4                   | 0           |
| 15              | 64QAM  | 1  | 37 | 18.67 | 18.75 | 18.67 |                        |             |
| 15              | 64QAM  | 1  | 74 | 18.61 | 18.57 | 18.49 |                        |             |
| 15              | 64QAM  | 36 | 0  | 18.41 | 18.29 | 18.32 | 19.4                   | 0           |
| 15              | 64QAM  | 36 | 20 | 18.32 | 18.30 | 18.18 |                        |             |
| 15              | 64QAM  | 36 | 39 | 18.59 | 18.52 | 18.55 |                        |             |
| 15              | 64QAM  | 75 | 0  | 18.43 | 18.47 | 18.33 |                        |             |
| 15              | 256QAM | 1  | 0  | 17.84 | 17.86 | 17.84 | 19                     | 0.4         |
| 15              | 256QAM | 1  | 37 | 17.75 | 17.79 | 17.65 |                        |             |
| 15              | 256QAM | 1  | 74 | 17.79 | 17.77 | 17.79 |                        |             |
| 15              | 256QAM | 36 | 0  | 17.74 | 17.90 | 17.86 | 19                     | 0.4         |
| 15              | 256QAM | 36 | 20 | 17.62 | 17.74 | 17.66 |                        |             |
| 15              | 256QAM | 36 | 39 | 17.75 | 17.74 | 17.73 |                        |             |
| 15              | 256QAM | 75 | 0  | 17.75 | 17.81 | 17.83 |                        |             |
| Channel         |        |    |    | 20800 | 21100 | 21400 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2505  | 2535  | 2565  |                        |             |
| 10              | QPSK   | 1  | 0  | 18.70 | 18.79 | 18.70 | 19.4                   | 0           |
| 10              | QPSK   | 1  | 25 | 18.70 | 18.82 | 18.72 |                        |             |
| 10              | QPSK   | 1  | 49 | 18.68 | 18.74 | 18.54 |                        |             |
| 10              | QPSK   | 25 | 0  | 18.62 | 18.72 | 18.66 | 19.4                   | 0           |
| 10              | QPSK   | 25 | 12 | 18.67 | 18.72 | 18.63 |                        |             |
| 10              | QPSK   | 25 | 25 | 18.57 | 18.60 | 18.53 |                        |             |
| 10              | QPSK   | 50 | 0  | 18.64 | 18.73 | 18.58 |                        |             |
| 10              | 16QAM  | 1  | 0  | 18.60 | 18.69 | 18.67 | 19.4                   | 0           |
| 10              | 16QAM  | 1  | 25 | 18.67 | 18.73 | 18.63 |                        |             |
| 10              | 16QAM  | 1  | 49 | 18.62 | 18.59 | 18.52 |                        |             |
| 10              | 16QAM  | 25 | 0  | 18.47 | 18.70 | 18.60 | 19.4                   | 0           |
| 10              | 16QAM  | 25 | 12 | 18.54 | 18.72 | 18.54 |                        |             |
| 10              | 16QAM  | 25 | 25 | 18.43 | 18.50 | 18.42 |                        |             |
| 10              | 16QAM  | 50 | 0  | 18.55 | 18.65 | 18.48 |                        |             |
| 10              | 64QAM  | 1  | 0  | 18.71 | 18.80 | 18.67 | 19.4                   | 0           |
| 10              | 64QAM  | 1  | 25 | 18.63 | 18.71 | 18.66 |                        |             |
| 10              | 64QAM  | 1  | 49 | 18.67 | 18.61 | 18.50 |                        |             |
| 10              | 64QAM  | 25 | 0  | 18.38 | 18.33 | 18.28 | 19.4                   | 0           |
| 10              | 64QAM  | 25 | 12 | 18.30 | 18.26 | 18.24 |                        |             |
| 10              | 64QAM  | 25 | 25 | 18.58 | 18.52 | 18.59 |                        |             |
| 10              | 64QAM  | 50 | 0  | 18.42 | 18.43 | 18.34 |                        |             |
| 10              | 256QAM | 1  | 0  | 17.82 | 17.77 | 17.86 | 19                     | 0.4         |
| 10              | 256QAM | 1  | 25 | 17.67 | 17.77 | 17.71 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.90 | 17.72 | 17.85 |                        |             |
| 10              | 256QAM | 25 | 0  | 17.69 | 17.79 | 17.81 | 19                     | 0.4         |
| 10              | 256QAM | 25 | 12 | 17.70 | 17.70 | 17.57 |                        |             |
| 10              | 256QAM | 25 | 25 | 17.89 | 17.88 | 17.77 |                        |             |
| 10              | 256QAM | 50 | 0  | 17.71 | 17.89 | 17.78 |                        |             |

| Channel         |        |    |    | 20775  | 21100 | 21425  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| Frequency (MHz) |        |    |    | 2502.5 | 2535  | 2567.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 18.71  | 18.81 | 18.71  | 19.4                   | 0           |
| 5               | QPSK   | 1  | 12 | 18.72  | 18.77 | 18.75  |                        |             |
| 5               | QPSK   | 1  | 24 | 18.71  | 18.73 | 18.57  |                        |             |
| 5               | QPSK   | 12 | 0  | 18.66  | 18.76 | 18.68  | 19.4                   | 0           |
| 5               | QPSK   | 12 | 7  | 18.63  | 18.75 | 18.62  |                        |             |
| 5               | QPSK   | 12 | 13 | 18.59  | 18.61 | 18.55  |                        |             |
| 5               | QPSK   | 25 | 0  | 18.64  | 18.71 | 18.59  | 19.4                   | 0           |
| 5               | 16QAM  | 1  | 0  | 18.61  | 18.69 | 18.62  |                        |             |
| 5               | 16QAM  | 1  | 12 | 18.65  | 18.70 | 18.59  |                        |             |
| 5               | 16QAM  | 1  | 24 | 18.67  | 18.63 | 18.53  | 19.4                   | 0           |
| 5               | 16QAM  | 12 | 0  | 18.48  | 18.72 | 18.66  |                        |             |
| 5               | 16QAM  | 12 | 7  | 18.61  | 18.72 | 18.53  |                        |             |
| 5               | 16QAM  | 12 | 13 | 18.48  | 18.48 | 18.42  | 19.4                   | 0           |
| 5               | 16QAM  | 25 | 0  | 18.60  | 18.64 | 18.49  |                        |             |
| 5               | 64QAM  | 1  | 0  | 18.72  | 18.79 | 18.63  | 19.4                   | 0           |
| 5               | 64QAM  | 1  | 12 | 18.61  | 18.75 | 18.64  |                        |             |
| 5               | 64QAM  | 1  | 24 | 18.64  | 18.62 | 18.44  |                        |             |
| 5               | 64QAM  | 12 | 0  | 18.37  | 18.34 | 18.27  | 19.4                   | 0           |
| 5               | 64QAM  | 12 | 7  | 18.29  | 18.25 | 18.21  |                        |             |
| 5               | 64QAM  | 12 | 13 | 18.62  | 18.48 | 18.56  |                        |             |
| 5               | 64QAM  | 25 | 0  | 18.44  | 18.47 | 18.39  | 19                     | 0.4         |
| 5               | 256QAM | 1  | 0  | 17.81  | 17.90 | 17.92  |                        |             |
| 5               | 256QAM | 1  | 12 | 17.69  | 17.80 | 17.65  |                        |             |
| 5               | 256QAM | 1  | 24 | 17.79  | 17.82 | 17.81  | 19                     | 0.4         |
| 5               | 256QAM | 12 | 0  | 17.79  | 17.88 | 17.81  |                        |             |
| 5               | 256QAM | 12 | 7  | 17.64  | 17.70 | 17.65  |                        |             |
| 5               | 256QAM | 12 | 13 | 17.86  | 17.83 | 17.83  | 19                     | 0.4         |
| 5               | 256QAM | 25 | 0  | 17.70  | 17.83 | 17.85  |                        |             |

| Band 30 Ant3 DSI5 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 27710                    |                             |                           |                        |             |
| Frequency (MHz)   |            |         |           | 2310                     |                             |                           |                        |             |
| 10                | QPSK       | 1       | 0         |                          | 17.51                       |                           | 18.4                   | 0           |
| 10                | QPSK       | 1       | 25        |                          | 17.38                       |                           |                        |             |
| 10                | QPSK       | 1       | 49        |                          | 17.46                       |                           |                        |             |
| 10                | QPSK       | 25      | 0         |                          | 17.46                       |                           | 18.4                   | 0           |
| 10                | QPSK       | 25      | 12        |                          | 17.22                       |                           |                        |             |
| 10                | QPSK       | 25      | 25        |                          | 17.34                       |                           |                        |             |
| 10                | QPSK       | 50      | 0         |                          | 17.17                       |                           | 18.4                   | 0           |
| 10                | 16QAM      | 1       | 0         |                          | 17.07                       |                           |                        |             |
| 10                | 16QAM      | 1       | 25        |                          | 17.25                       |                           |                        |             |
| 10                | 16QAM      | 1       | 49        |                          | 16.87                       |                           | 18.4                   | 0           |
| 10                | 16QAM      | 25      | 0         |                          | 16.94                       |                           |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 10              | 16QAM  | 25 | 12 |        | 17.02 |        |                        |             |
| 10              | 16QAM  | 25 | 25 |        | 17.20 |        |                        |             |
| 10              | 16QAM  | 50 | 0  |        | 17.01 |        |                        |             |
| 10              | 64QAM  | 1  | 0  |        | 17.16 |        | 18.4                   | 0           |
| 10              | 64QAM  | 1  | 25 |        | 16.94 |        |                        |             |
| 10              | 64QAM  | 1  | 49 |        | 17.00 |        |                        |             |
| 10              | 64QAM  | 25 | 0  |        | 17.02 |        | 18.4                   | 0           |
| 10              | 64QAM  | 25 | 12 |        | 17.01 |        |                        |             |
| 10              | 64QAM  | 25 | 25 |        | 16.97 |        |                        |             |
| 10              | 64QAM  | 50 | 0  |        | 17.03 |        |                        |             |
| 10              | 256QAM | 1  | 0  |        | 16.98 |        | 18.4                   | 0           |
| 10              | 256QAM | 1  | 25 |        | 16.95 |        |                        |             |
| 10              | 256QAM | 1  | 49 |        | 17.17 |        |                        |             |
| 10              | 256QAM | 25 | 0  |        | 16.92 |        | 18.4                   | 0           |
| 10              | 256QAM | 25 | 12 |        | 17.08 |        |                        |             |
| 10              | 256QAM | 25 | 25 |        | 16.86 |        |                        |             |
| 10              | 256QAM | 50 | 0  |        | 16.96 |        |                        |             |
| Channel         |        |    |    | 27685  | 27710 | 27735  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2307.5 | 2310  | 2312.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 17.46  | 17.47 | 17.44  | 18.4                   | 0           |
| 5               | QPSK   | 1  | 12 | 17.33  | 17.32 | 17.32  |                        |             |
| 5               | QPSK   | 1  | 24 | 17.39  | 17.41 | 17.39  |                        |             |
| 5               | QPSK   | 12 | 0  | 17.42  | 17.42 | 17.39  | 18.4                   | 0           |
| 5               | QPSK   | 12 | 7  | 17.19  | 17.18 | 17.12  |                        |             |
| 5               | QPSK   | 12 | 13 | 17.28  | 17.29 | 17.27  |                        |             |
| 5               | QPSK   | 25 | 0  | 17.13  | 17.13 | 17.13  |                        |             |
| 5               | 16QAM  | 1  | 0  | 17.04  | 17.01 | 17.02  | 18.4                   | 0           |
| 5               | 16QAM  | 1  | 12 | 17.17  | 17.18 | 17.20  |                        |             |
| 5               | 16QAM  | 1  | 24 | 16.84  | 16.81 | 16.83  |                        |             |
| 5               | 16QAM  | 12 | 0  | 16.86  | 16.89 | 16.89  | 18.4                   | 0           |
| 5               | 16QAM  | 12 | 7  | 16.99  | 16.99 | 16.97  |                        |             |
| 5               | 16QAM  | 12 | 13 | 17.13  | 17.12 | 17.16  |                        |             |
| 5               | 16QAM  | 25 | 0  | 16.97  | 16.98 | 16.92  |                        |             |
| 5               | 64QAM  | 1  | 0  | 17.09  | 17.09 | 17.12  | 18.4                   | 0           |
| 5               | 64QAM  | 1  | 12 | 16.91  | 16.90 | 16.88  |                        |             |
| 5               | 64QAM  | 1  | 24 | 16.92  | 16.91 | 16.98  |                        |             |
| 5               | 64QAM  | 12 | 0  | 16.99  | 16.99 | 16.94  | 18.4                   | 0           |
| 5               | 64QAM  | 12 | 7  | 16.94  | 16.91 | 16.97  |                        |             |
| 5               | 64QAM  | 12 | 13 | 16.91  | 16.92 | 16.95  |                        |             |
| 5               | 64QAM  | 25 | 0  | 16.99  | 17.00 | 17.00  |                        |             |
| 5               | 256QAM | 1  | 0  | 16.94  | 16.92 | 16.91  | 18.4                   | 0           |
| 5               | 256QAM | 1  | 12 | 16.87  | 16.85 | 16.91  |                        |             |
| 5               | 256QAM | 1  | 24 | 17.12  | 17.11 | 17.13  |                        |             |
| 5               | 256QAM | 12 | 0  | 16.86  | 16.84 | 16.90  | 18.4                   | 0           |
| 5               | 256QAM | 12 | 7  | 17.05  | 17.00 | 16.98  |                        |             |
| 5               | 256QAM | 12 | 13 | 16.81  | 16.77 | 16.84  |                        |             |
| 5               | 256QAM | 25 | 0  | 16.89  | 16.90 | 16.89  |                        |             |

| Band 2 Ant5 DSI5 |        |     |    |        |       |        |                        |             |
|------------------|--------|-----|----|--------|-------|--------|------------------------|-------------|
| Channel          |        |     |    | 18700  | 18900 | 19100  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)  |        |     |    | 1860   | 1880  | 1900   |                        |             |
| 20               | QPSK   | 1   | 0  | 21.96  | 22.12 | 22.00  | 22.9                   | 0           |
| 20               | QPSK   | 1   | 49 | 21.99  | 22.07 | 21.93  |                        |             |
| 20               | QPSK   | 1   | 99 | 21.90  | 22.02 | 21.96  |                        |             |
| 20               | QPSK   | 50  | 0  | 21.90  | 22.06 | 21.97  | 22.9                   | 0           |
| 20               | QPSK   | 50  | 24 | 21.94  | 22.02 | 21.84  |                        |             |
| 20               | QPSK   | 50  | 50 | 21.85  | 21.97 | 21.91  |                        |             |
| 20               | QPSK   | 100 | 0  | 21.87  | 22.02 | 21.91  |                        |             |
| 20               | 16QAM  | 1   | 0  | 21.88  | 22.04 | 21.92  | 22.9                   | 0           |
| 20               | 16QAM  | 1   | 49 | 21.96  | 22.03 | 21.86  |                        |             |
| 20               | 16QAM  | 1   | 99 | 21.81  | 21.96 | 21.93  |                        |             |
| 20               | 16QAM  | 50  | 0  | 21.60  | 21.65 | 21.52  | 22.9                   | 0           |
| 20               | 16QAM  | 50  | 24 | 21.43  | 21.56 | 21.44  |                        |             |
| 20               | 16QAM  | 50  | 50 | 21.46  | 21.54 | 21.44  |                        |             |
| 20               | 16QAM  | 100 | 0  | 21.47  | 21.54 | 21.43  |                        |             |
| 20               | 64QAM  | 1   | 0  | 21.61  | 21.77 | 21.68  | 22.9                   | 0           |
| 20               | 64QAM  | 1   | 49 | 21.66  | 21.75 | 21.60  |                        |             |
| 20               | 64QAM  | 1   | 99 | 21.61  | 21.71 | 21.58  |                        |             |
| 20               | 64QAM  | 50  | 0  | 20.40  | 20.54 | 20.40  | 22                     | 0.9         |
| 20               | 64QAM  | 50  | 24 | 20.37  | 20.51 | 20.39  |                        |             |
| 20               | 64QAM  | 50  | 50 | 20.42  | 20.52 | 20.42  |                        |             |
| 20               | 64QAM  | 100 | 0  | 20.45  | 20.55 | 20.48  | 20                     | 2.9         |
| 20               | 256QAM | 1   | 0  | 18.48  | 18.64 | 18.52  |                        |             |
| 20               | 256QAM | 1   | 49 | 18.50  | 18.57 | 18.51  |                        |             |
| 20               | 256QAM | 1   | 99 | 18.43  | 18.56 | 18.44  | 20                     | 2.9         |
| 20               | 256QAM | 50  | 0  | 18.52  | 18.58 | 18.53  |                        |             |
| 20               | 256QAM | 50  | 24 | 18.42  | 18.54 | 18.39  |                        |             |
| 20               | 256QAM | 50  | 50 | 18.42  | 18.51 | 18.41  |                        |             |
| 20               | 256QAM | 100 | 0  | 18.46  | 18.61 | 18.49  |                        |             |
| Channel          |        |     |    | 18675  | 18900 | 19125  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)  |        |     |    | 1857.5 | 1880  | 1902.5 |                        |             |
| 15               | QPSK   | 1   | 0  | 21.94  | 22.07 | 21.96  | 22.9                   | 0           |
| 15               | QPSK   | 1   | 37 | 21.91  | 22.01 | 21.84  |                        |             |
| 15               | QPSK   | 1   | 74 | 21.81  | 21.94 | 21.93  |                        |             |
| 15               | QPSK   | 36  | 0  | 21.81  | 21.97 | 21.95  | 22.9                   | 0           |
| 15               | QPSK   | 36  | 20 | 21.88  | 21.97 | 21.74  |                        |             |
| 15               | QPSK   | 36  | 39 | 21.80  | 21.87 | 21.89  |                        |             |
| 15               | QPSK   | 75  | 0  | 21.81  | 21.94 | 21.83  |                        |             |
| 15               | 16QAM  | 1   | 0  | 21.79  | 22.01 | 21.84  | 22.9                   | 0           |
| 15               | 16QAM  | 1   | 37 | 21.87  | 22.01 | 21.84  |                        |             |
| 15               | 16QAM  | 1   | 74 | 21.73  | 21.91 | 21.88  |                        |             |
| 15               | 16QAM  | 36  | 0  | 21.50  | 21.53 | 21.40  | 22.9                   | 0           |
| 15               | 16QAM  | 36  | 20 | 21.38  | 21.47 | 21.31  |                        |             |
| 15               | 16QAM  | 36  | 39 | 21.30  | 21.48 | 21.36  |                        |             |



|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 16QAM  | 75 | 0  | 21.33  | 21.47 | 21.33  | 22.9                   | 0           |
| 15              | 64QAM  | 1  | 0  | 21.52  | 21.62 | 21.54  |                        |             |
| 15              | 64QAM  | 1  | 37 | 21.59  | 21.69 | 21.55  |                        |             |
| 15              | 64QAM  | 1  | 74 | 21.54  | 21.65 | 21.42  |                        |             |
| 15              | 64QAM  | 36 | 0  | 20.25  | 20.47 | 20.33  | 22                     | 0.9         |
| 15              | 64QAM  | 36 | 20 | 20.33  | 20.45 | 20.24  |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.27  | 20.48 | 20.34  |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.38  | 20.46 | 20.36  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.35  | 18.56 | 18.37  | 20                     | 2.9         |
| 15              | 256QAM | 1  | 37 | 18.35  | 18.53 | 18.36  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.31  | 18.42 | 18.31  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.41  | 18.47 | 18.41  | 20                     | 2.9         |
| 15              | 256QAM | 36 | 20 | 18.37  | 18.42 | 18.23  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.30  | 18.42 | 18.26  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.39  | 18.46 | 18.35  |                        |             |
| Channel         |        |    |    | 18650  | 18900 | 19150  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1855   | 1880  | 1905   |                        |             |
| 10              | QPSK   | 1  | 0  | 21.91  | 22.07 | 21.91  | 22.9                   | 0           |
| 10              | QPSK   | 1  | 25 | 21.96  | 21.98 | 21.90  |                        |             |
| 10              | QPSK   | 1  | 49 | 21.80  | 21.93 | 21.90  |                        |             |
| 10              | QPSK   | 25 | 0  | 21.81  | 22.00 | 21.91  | 22.9                   | 0           |
| 10              | QPSK   | 25 | 12 | 21.91  | 21.97 | 21.74  |                        |             |
| 10              | QPSK   | 25 | 25 | 21.79  | 21.87 | 21.86  |                        |             |
| 10              | QPSK   | 50 | 0  | 21.83  | 21.95 | 21.86  |                        |             |
| 10              | 16QAM  | 1  | 0  | 21.83  | 21.97 | 21.87  | 22.9                   | 0           |
| 10              | 16QAM  | 1  | 25 | 21.90  | 21.99 | 21.82  |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.77  | 21.94 | 21.87  |                        |             |
| 10              | 16QAM  | 25 | 0  | 21.50  | 21.59 | 21.37  | 22.9                   | 0           |
| 10              | 16QAM  | 25 | 12 | 21.28  | 21.47 | 21.31  |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.35  | 21.42 | 21.32  |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.36  | 21.45 | 21.28  |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.53  | 21.73 | 21.54  | 22.9                   | 0           |
| 10              | 64QAM  | 1  | 25 | 21.62  | 21.63 | 21.49  |                        |             |
| 10              | 64QAM  | 1  | 49 | 21.45  | 21.59 | 21.46  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.30  | 20.39 | 20.36  | 22                     | 0.9         |
| 10              | 64QAM  | 25 | 12 | 20.33  | 20.46 | 20.32  |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.27  | 20.39 | 20.34  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.38  | 20.50 | 20.40  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.38  | 18.59 | 18.41  | 20                     | 2.9         |
| 10              | 256QAM | 1  | 25 | 18.45  | 18.44 | 18.38  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.36  | 18.44 | 18.30  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.46  | 18.53 | 18.41  | 20                     | 2.9         |
| 10              | 256QAM | 25 | 12 | 18.37  | 18.45 | 18.32  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.30  | 18.40 | 18.37  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.30  | 18.48 | 18.41  |                        |             |
| Channel         |        |    |    | 18625  | 18900 | 19175  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1852.5 | 1880  | 1907.5 |                        |             |



|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 5               | QPSK   | 1  | 0  | 21.87  | 22.08 | 21.97  | 22.9                   | 0           |
| 5               | QPSK   | 1  | 12 | 21.90  | 22.01 | 21.91  |                        |             |
| 5               | QPSK   | 1  | 24 | 21.81  | 21.98 | 21.91  |                        |             |
| 5               | QPSK   | 12 | 0  | 21.84  | 21.99 | 21.92  | 22.9                   | 0           |
| 5               | QPSK   | 12 | 7  | 21.88  | 21.95 | 21.79  |                        |             |
| 5               | QPSK   | 12 | 13 | 21.78  | 21.93 | 21.82  |                        |             |
| 5               | QPSK   | 25 | 0  | 21.84  | 21.97 | 21.84  |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.85  | 21.96 | 21.88  | 22.9                   | 0           |
| 5               | 16QAM  | 1  | 12 | 21.90  | 21.94 | 21.77  |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.75  | 21.92 | 21.90  |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.47  | 21.53 | 21.47  | 22.9                   | 0           |
| 5               | 16QAM  | 12 | 7  | 21.39  | 21.44 | 21.34  |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.37  | 21.43 | 21.36  |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.36  | 21.44 | 21.37  |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.49  | 21.70 | 21.53  | 22.9                   | 0           |
| 5               | 64QAM  | 1  | 12 | 21.55  | 21.60 | 21.45  |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.53  | 21.58 | 21.48  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.31  | 20.39 | 20.34  | 22                     | 0.9         |
| 5               | 64QAM  | 12 | 7  | 20.28  | 20.37 | 20.27  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.36  | 20.40 | 20.29  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.38  | 20.44 | 20.41  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.44  | 18.60 | 18.36  | 20                     | 2.9         |
| 5               | 256QAM | 1  | 12 | 18.42  | 18.44 | 18.43  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.28  | 18.51 | 18.33  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.37  | 18.47 | 18.43  | 20                     | 2.9         |
| 5               | 256QAM | 12 | 7  | 18.28  | 18.43 | 18.25  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.31  | 18.41 | 18.35  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.38  | 18.52 | 18.33  |                        |             |
| Channel         |        |    |    | 18615  | 18900 | 19185  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1851.5 | 1880  | 1908.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 21.93  | 22.06 | 21.93  | 22.9                   | 0           |
| 3               | QPSK   | 1  | 8  | 21.91  | 22.02 | 21.87  |                        |             |
| 3               | QPSK   | 1  | 14 | 21.83  | 21.97 | 21.93  |                        |             |
| 3               | QPSK   | 8  | 0  | 21.86  | 22.00 | 21.93  | 22.9                   | 0           |
| 3               | QPSK   | 8  | 4  | 21.88  | 21.92 | 21.79  |                        |             |
| 3               | QPSK   | 8  | 7  | 21.81  | 21.92 | 21.87  |                        |             |
| 3               | QPSK   | 15 | 0  | 21.85  | 21.98 | 21.86  |                        |             |
| 3               | 16QAM  | 1  | 0  | 21.82  | 22.00 | 21.83  | 22.9                   | 0           |
| 3               | 16QAM  | 1  | 8  | 21.93  | 21.95 | 21.77  |                        |             |
| 3               | 16QAM  | 1  | 14 | 21.73  | 21.87 | 21.91  |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.52  | 21.59 | 21.47  | 22.9                   | 0           |
| 3               | 16QAM  | 8  | 4  | 21.30  | 21.40 | 21.37  |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.32  | 21.46 | 21.37  |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.36  | 21.48 | 21.37  |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.47  | 21.66 | 21.63  | 22.9                   | 0           |
| 3               | 64QAM  | 1  | 8  | 21.51  | 21.69 | 21.54  |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.54  | 21.63 | 21.53  |                        |             |



|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 3               | 64QAM  | 8  | 0  | 20.28  | 20.39 | 20.34  | 22                     | 0.9         |
| 3               | 64QAM  | 8  | 4  | 20.31  | 20.46 | 20.28  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.37  | 20.46 | 20.30  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.33  | 20.47 | 20.33  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.39  | 18.50 | 18.45  | 20                     | 2.9         |
| 3               | 256QAM | 1  | 8  | 18.40  | 18.46 | 18.43  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.33  | 18.46 | 18.36  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.43  | 18.50 | 18.45  | 20                     | 2.9         |
| 3               | 256QAM | 8  | 4  | 18.32  | 18.41 | 18.30  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.30  | 18.37 | 18.35  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.36  | 18.53 | 18.42  |                        |             |
| Channel         |        |    |    | 18607  | 18900 | 19193  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1850.7 | 1880  | 1909.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 21.88  | 22.05 | 21.94  | 22.9                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 21.96  | 22.02 | 21.89  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 21.85  | 21.92 | 21.89  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 21.87  | 22.03 | 21.95  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 21.96  | 22.02 | 21.84  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 21.82  | 21.96 | 21.91  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 21.84  | 22.01 | 21.90  | 22.9                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 21.92  | 21.97 | 21.76  | 22.9                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 21.78  | 21.91 | 21.85  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 21.78  | 21.95 | 21.89  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.78  | 21.98 | 21.89  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 21.94  | 21.95 | 21.80  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 21.71  | 21.92 | 21.84  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 21.45  | 21.55 | 21.43  | 22.9                   | 0           |
| 1.4             | 64QAM  | 1  | 0  | 21.34  | 21.42 | 21.39  | 22.9                   | 0           |
| 1.4             | 64QAM  | 1  | 3  | 21.38  | 21.39 | 21.29  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 21.33  | 21.43 | 21.29  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 21.52  | 21.63 | 21.58  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 21.59  | 21.61 | 21.46  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 21.49  | 21.65 | 21.44  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.25  | 20.50 | 20.29  | 22                     | 0.9         |
| 1.4             | 256QAM | 1  | 0  | 18.32  | 18.46 | 18.29  | 20                     | 2.9         |
| 1.4             | 256QAM | 1  | 3  | 18.38  | 18.43 | 18.37  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.40  | 18.45 | 18.43  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.26  | 18.44 | 18.24  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.37  | 18.44 | 18.37  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.41  | 18.48 | 18.33  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.31  | 18.51 | 18.42  | 20                     | 2.9         |

| Band 4 Ant5 DSI5 |        |     |    |        |        |        |                        |             |
|------------------|--------|-----|----|--------|--------|--------|------------------------|-------------|
| Channel          |        |     |    | 20050  | 20175  | 20300  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)  |        |     |    | 1720   | 1732.5 | 1745   |                        |             |
| 20               | QPSK   | 1   | 0  | 21.72  | 21.88  | 21.61  | 23.5                   | 0           |
| 20               | QPSK   | 1   | 49 | 21.86  | 21.87  | 21.58  |                        |             |
| 20               | QPSK   | 1   | 99 | 21.61  | 21.75  | 21.58  |                        |             |
| 20               | QPSK   | 50  | 0  | 21.68  | 21.83  | 21.51  | 23.5                   | 0           |
| 20               | QPSK   | 50  | 24 | 21.80  | 21.73  | 21.62  |                        |             |
| 20               | QPSK   | 50  | 50 | 21.61  | 21.64  | 21.63  |                        |             |
| 20               | QPSK   | 100 | 0  | 21.55  | 21.74  | 21.54  | 23.5                   | 0           |
| 20               | 16QAM  | 1   | 0  | 21.67  | 21.74  | 21.58  |                        |             |
| 20               | 16QAM  | 1   | 49 | 21.71  | 21.79  | 21.54  |                        |             |
| 20               | 16QAM  | 1   | 99 | 21.62  | 21.77  | 21.61  | 23                     | 0.5         |
| 20               | 16QAM  | 50  | 0  | 21.49  | 21.53  | 21.45  |                        |             |
| 20               | 16QAM  | 50  | 24 | 21.37  | 21.43  | 21.35  |                        |             |
| 20               | 16QAM  | 50  | 50 | 21.32  | 21.43  | 21.35  | 23                     | 0.5         |
| 20               | 16QAM  | 100 | 0  | 21.39  | 21.45  | 21.38  |                        |             |
| 20               | 64QAM  | 1   | 0  | 21.50  | 21.69  | 21.61  |                        |             |
| 20               | 64QAM  | 1   | 49 | 21.50  | 21.60  | 21.56  | 22                     | 1.5         |
| 20               | 64QAM  | 1   | 99 | 21.53  | 21.65  | 21.43  |                        |             |
| 20               | 64QAM  | 50  | 0  | 20.29  | 20.46  | 20.27  |                        |             |
| 20               | 64QAM  | 50  | 24 | 20.24  | 20.42  | 20.29  | 20                     | 3.5         |
| 20               | 64QAM  | 50  | 50 | 20.34  | 20.41  | 20.35  |                        |             |
| 20               | 256QAM | 1   | 0  | 18.43  | 18.58  | 18.36  |                        |             |
| 20               | 256QAM | 1   | 49 | 18.45  | 18.49  | 18.41  | 20                     | 3.5         |
| 20               | 256QAM | 1   | 99 | 18.37  | 18.44  | 18.38  |                        |             |
| 20               | 256QAM | 50  | 0  | 18.47  | 18.47  | 18.39  |                        |             |
| 20               | 256QAM | 50  | 24 | 18.26  | 18.40  | 18.25  | 20                     | 3.5         |
| 20               | 256QAM | 50  | 50 | 18.29  | 18.39  | 18.28  |                        |             |
| 20               | 256QAM | 100 | 0  | 18.42  | 18.50  | 18.41  |                        |             |
| Channel          |        |     |    | 20025  | 20175  | 20325  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)  |        |     |    | 1717.5 | 1732.5 | 1747.5 |                        |             |
| 15               | QPSK   | 1   | 0  | 21.65  | 21.75  | 21.57  | 23.5                   | 0           |
| 15               | QPSK   | 1   | 37 | 21.77  | 21.82  | 21.51  |                        |             |
| 15               | QPSK   | 1   | 74 | 21.53  | 21.67  | 21.53  |                        |             |
| 15               | QPSK   | 36  | 0  | 21.61  | 21.70  | 21.57  | 23.5                   | 0           |
| 15               | QPSK   | 36  | 20 | 21.78  | 21.69  | 21.56  |                        |             |
| 15               | QPSK   | 36  | 39 | 21.51  | 21.51  | 21.53  |                        |             |
| 15               | QPSK   | 75  | 0  | 21.51  | 21.68  | 21.60  | 23.5                   | 0           |
| 15               | 16QAM  | 1   | 0  | 21.64  | 21.61  | 21.58  |                        |             |
| 15               | 16QAM  | 1   | 37 | 21.63  | 21.74  | 21.64  |                        |             |
| 15               | 16QAM  | 1   | 74 | 21.50  | 21.70  | 21.58  | 23                     | 0.5         |
| 15               | 16QAM  | 36  | 0  | 21.35  | 21.39  | 21.29  |                        |             |
| 15               | 16QAM  | 36  | 20 | 21.29  | 21.37  | 21.20  |                        |             |
| 15               | 16QAM  | 36  | 39 | 21.22  | 21.34  | 21.27  |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 16QAM  | 75 | 0  | 21.20  | 21.41  | 21.17  | 23                     | 0.5         |
| 15              | 64QAM  | 1  | 0  | 21.37  | 21.49  | 21.46  |                        |             |
| 15              | 64QAM  | 1  | 37 | 21.48  | 21.62  | 21.45  |                        |             |
| 15              | 64QAM  | 1  | 74 | 21.45  | 21.58  | 21.37  |                        |             |
| 15              | 64QAM  | 36 | 0  | 20.10  | 20.38  | 20.26  | 22                     | 1.5         |
| 15              | 64QAM  | 36 | 20 | 20.20  | 20.31  | 20.13  |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.21  | 20.33  | 20.18  |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.27  | 20.34  | 20.27  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.25  | 18.41  | 18.22  | 20                     | 3.5         |
| 15              | 256QAM | 1  | 37 | 18.22  | 18.45  | 18.30  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.21  | 18.38  | 18.19  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.35  | 18.41  | 18.34  | 20                     | 3.5         |
| 15              | 256QAM | 36 | 20 | 18.26  | 18.36  | 18.09  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.15  | 18.30  | 18.21  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.24  | 18.37  | 18.31  |                        |             |
| Channel         |        |    |    | 20000  | 20175  | 20350  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1715   | 1732.5 | 1750   |                        |             |
| 10              | QPSK   | 1  | 0  | 21.58  | 21.81  | 21.50  | 23.5                   | 0           |
| 10              | QPSK   | 1  | 25 | 21.83  | 21.84  | 21.51  |                        |             |
| 10              | QPSK   | 1  | 49 | 21.58  | 21.70  | 21.64  |                        |             |
| 10              | QPSK   | 25 | 0  | 21.58  | 21.75  | 21.67  | 23.5                   | 0           |
| 10              | QPSK   | 25 | 12 | 21.72  | 21.67  | 21.65  |                        |             |
| 10              | QPSK   | 25 | 25 | 21.59  | 21.61  | 21.55  |                        |             |
| 10              | QPSK   | 50 | 0  | 21.53  | 21.68  | 21.61  |                        |             |
| 10              | 16QAM  | 1  | 0  | 21.54  | 21.64  | 21.55  | 23.5                   | 0           |
| 10              | 16QAM  | 1  | 25 | 21.69  | 21.71  | 21.65  |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.59  | 21.65  | 21.55  |                        |             |
| 10              | 16QAM  | 25 | 0  | 21.44  | 21.50  | 21.22  | 23                     | 0.5         |
| 10              | 16QAM  | 25 | 12 | 21.15  | 21.37  | 21.26  |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.22  | 21.33  | 21.26  |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.28  | 21.37  | 21.19  |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.39  | 21.58  | 21.46  | 23                     | 0.5         |
| 10              | 64QAM  | 1  | 25 | 21.57  | 21.54  | 21.34  |                        |             |
| 10              | 64QAM  | 1  | 49 | 21.36  | 21.48  | 21.40  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.16  | 20.24  | 20.22  | 22                     | 1.5         |
| 10              | 64QAM  | 25 | 12 | 20.21  | 20.30  | 20.22  |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.14  | 20.24  | 20.25  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.29  | 20.34  | 20.29  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.29  | 18.44  | 18.26  | 20                     | 3.5         |
| 10              | 256QAM | 1  | 25 | 18.40  | 18.31  | 18.23  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.31  | 18.37  | 18.19  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.34  | 18.46  | 18.32  | 20                     | 3.5         |
| 10              | 256QAM | 25 | 12 | 18.29  | 18.34  | 18.19  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.22  | 18.32  | 18.22  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.24  | 18.37  | 18.34  |                        |             |
| Channel         |        |    |    | 19975  | 20175  | 20375  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1712.5 | 1732.5 | 1752.5 |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 5               | QPSK   | 1  | 0  | 21.63  | 21.74  | 21.66  | 23.5                   | 0           |
| 5               | QPSK   | 1  | 12 | 21.84  | 21.73  | 21.67  |                        |             |
| 5               | QPSK   | 1  | 24 | 21.52  | 21.71  | 21.66  |                        |             |
| 5               | QPSK   | 12 | 0  | 21.66  | 21.78  | 21.64  | 23.5                   | 0           |
| 5               | QPSK   | 12 | 7  | 21.69  | 21.68  | 21.58  |                        |             |
| 5               | QPSK   | 12 | 13 | 21.50  | 21.61  | 21.52  |                        |             |
| 5               | QPSK   | 25 | 0  | 21.55  | 21.64  | 21.53  |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.65  | 21.67  | 21.62  | 23.5                   | 0           |
| 5               | 16QAM  | 1  | 12 | 21.57  | 21.68  | 21.61  |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.50  | 21.65  | 21.53  |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.36  | 21.48  | 21.35  | 23                     | 0.5         |
| 5               | 16QAM  | 12 | 7  | 21.26  | 21.36  | 21.28  |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.32  | 21.37  | 21.25  |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.23  | 21.32  | 21.24  |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.41  | 21.55  | 21.40  | 23                     | 0.5         |
| 5               | 64QAM  | 1  | 12 | 21.45  | 21.54  | 21.40  |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.39  | 21.42  | 21.34  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.16  | 20.27  | 20.25  | 22                     | 1.5         |
| 5               | 64QAM  | 12 | 7  | 20.22  | 20.30  | 20.21  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.28  | 20.26  | 20.13  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.29  | 20.38  | 20.35  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.34  | 18.55  | 18.25  | 20                     | 3.5         |
| 5               | 256QAM | 1  | 12 | 18.34  | 18.29  | 18.29  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.24  | 18.45  | 18.21  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.28  | 18.32  | 18.32  | 20                     | 3.5         |
| 5               | 256QAM | 12 | 7  | 18.22  | 18.32  | 18.12  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.24  | 18.27  | 18.20  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.23  | 18.46  | 18.17  |                        |             |
| Channel         |        |    |    | 19965  | 20175  | 20385  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1711.5 | 1732.5 | 1753.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 21.63  | 21.73  | 21.64  | 23.5                   | 0           |
| 3               | QPSK   | 1  | 8  | 21.64  | 21.85  | 21.66  |                        |             |
| 3               | QPSK   | 1  | 14 | 21.62  | 21.64  | 21.68  |                        |             |
| 3               | QPSK   | 8  | 0  | 21.67  | 21.75  | 21.74  | 23.5                   | 0           |
| 3               | QPSK   | 8  | 4  | 21.63  | 21.66  | 21.56  |                        |             |
| 3               | QPSK   | 8  | 7  | 21.52  | 21.59  | 21.54  |                        |             |
| 3               | QPSK   | 15 | 0  | 21.57  | 21.60  | 21.54  |                        |             |
| 3               | 16QAM  | 1  | 0  | 21.57  | 21.61  | 21.55  | 23.5                   | 0           |
| 3               | 16QAM  | 1  | 8  | 21.55  | 21.69  | 21.58  |                        |             |
| 3               | 16QAM  | 1  | 14 | 21.54  | 21.69  | 21.51  |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.46  | 21.43  | 21.43  | 23                     | 0.5         |
| 3               | 16QAM  | 8  | 4  | 21.19  | 21.26  | 21.25  |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.23  | 21.40  | 21.28  |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.21  | 21.34  | 21.32  |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.40  | 21.59  | 21.55  | 23                     | 0.5         |
| 3               | 64QAM  | 1  | 8  | 21.39  | 21.56  | 21.48  |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.43  | 21.53  | 21.46  |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 3               | 64QAM  | 8  | 0  | 20.15  | 20.32  | 20.22  | 22                     | 1.5         |
| 3               | 64QAM  | 8  | 4  | 20.22  | 20.32  | 20.15  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.27  | 20.38  | 20.19  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.23  | 20.33  | 20.23  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.33  | 18.35  | 18.33  | 20                     | 3.5         |
| 3               | 256QAM | 1  | 8  | 18.27  | 18.36  | 18.33  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.25  | 18.34  | 18.24  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.38  | 18.41  | 18.35  | 20                     | 3.5         |
| 3               | 256QAM | 8  | 4  | 18.25  | 18.36  | 18.25  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.23  | 18.24  | 18.31  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.23  | 18.48  | 18.31  |                        |             |
| Channel         |        |    |    | 19957  | 20175  | 20393  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1710.7 | 1732.5 | 1754.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 21.65  | 21.81  | 21.70  | 23.5                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 21.72  | 21.78  | 21.65  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 21.55  | 21.62  | 21.65  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 21.68  | 21.82  | 21.66  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 21.76  | 21.79  | 21.57  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 21.52  | 21.71  | 21.53  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 21.55  | 21.75  | 21.59  | 23.5                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 21.77  | 21.69  | 21.61  | 23.5                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 21.56  | 21.51  | 21.60  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 21.67  | 21.69  | 21.68  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.70  | 21.67  | 21.67  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 21.67  | 21.66  | 21.67  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 21.70  | 21.66  | 21.73  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 21.63  | 21.44  | 21.59  | 23                     | 0.5         |
| 1.4             | 64QAM  | 1  | 0  | 21.52  | 21.30  | 21.47  | 23                     | 0.5         |
| 1.4             | 64QAM  | 1  | 3  | 21.60  | 21.24  | 21.52  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 21.54  | 21.33  | 21.65  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 21.64  | 21.54  | 21.58  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 21.46  | 21.47  | 21.41  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 21.37  | 21.58  | 21.32  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.18  | 20.44  | 20.25  | 22                     | 1.5         |
| 1.4             | 256QAM | 1  | 0  | 18.27  | 18.35  | 18.18  | 20                     | 3.5         |
| 1.4             | 256QAM | 1  | 3  | 18.23  | 18.35  | 18.26  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.32  | 18.34  | 18.37  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.14  | 18.32  | 18.15  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.30  | 18.36  | 18.26  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.32  | 18.38  | 18.20  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.19  | 18.40  | 18.37  | 20                     | 3.5         |

| Band 66 Ant5 DSI5 |        |     |    |        |        |        |                        |             |
|-------------------|--------|-----|----|--------|--------|--------|------------------------|-------------|
| Channel           |        |     |    | 132072 | 132322 | 132572 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |        |     |    | 1720   | 1745   | 1770   |                        |             |
| 20                | QPSK   | 1   | 0  | 21.78  | 21.91  | 21.75  | 23.5                   | 0           |
| 20                | QPSK   | 1   | 49 | 21.89  | 21.89  | 21.70  |                        |             |
| 20                | QPSK   | 1   | 99 | 21.75  | 21.87  | 21.71  |                        |             |
| 20                | QPSK   | 50  | 0  | 21.75  | 21.87  | 21.63  | 23.5                   | 0           |
| 20                | QPSK   | 50  | 24 | 21.83  | 21.79  | 21.67  |                        |             |
| 20                | QPSK   | 50  | 50 | 21.67  | 21.75  | 21.67  |                        |             |
| 20                | QPSK   | 100 | 0  | 21.66  | 21.77  | 21.61  |                        |             |
| 20                | 16QAM  | 1   | 0  | 21.74  | 21.88  | 21.65  | 23.5                   | 0           |
| 20                | 16QAM  | 1   | 49 | 21.78  | 21.85  | 21.67  |                        |             |
| 20                | 16QAM  | 1   | 99 | 21.73  | 21.85  | 21.66  |                        |             |
| 20                | 16QAM  | 50  | 0  | 21.38  | 21.38  | 21.37  | 23                     | 0.5         |
| 20                | 16QAM  | 50  | 24 | 21.28  | 21.36  | 21.24  |                        |             |
| 20                | 16QAM  | 50  | 50 | 21.18  | 21.31  | 21.20  |                        |             |
| 20                | 16QAM  | 100 | 0  | 21.29  | 21.38  | 21.26  |                        |             |
| 20                | 64QAM  | 1   | 0  | 21.43  | 21.54  | 21.50  | 23                     | 0.5         |
| 20                | 64QAM  | 1   | 49 | 21.46  | 21.49  | 21.41  |                        |             |
| 20                | 64QAM  | 1   | 99 | 21.43  | 21.61  | 21.29  |                        |             |
| 20                | 64QAM  | 50  | 0  | 20.19  | 20.33  | 20.17  | 22                     | 1.5         |
| 20                | 64QAM  | 50  | 24 | 20.10  | 20.31  | 20.25  |                        |             |
| 20                | 64QAM  | 50  | 50 | 20.29  | 20.33  | 20.21  |                        |             |
| 20                | 64QAM  | 100 | 0  | 20.32  | 20.42  | 20.37  |                        |             |
| 20                | 256QAM | 1   | 0  | 18.38  | 18.42  | 18.30  | 20                     | 3.5         |
| 20                | 256QAM | 1   | 49 | 18.39  | 18.43  | 18.34  |                        |             |
| 20                | 256QAM | 1   | 99 | 18.30  | 18.31  | 18.23  |                        |             |
| 20                | 256QAM | 50  | 0  | 18.34  | 18.32  | 18.27  | 20                     | 3.5         |
| 20                | 256QAM | 50  | 24 | 18.14  | 18.35  | 18.14  |                        |             |
| 20                | 256QAM | 50  | 50 | 18.19  | 18.26  | 18.21  |                        |             |
| 20                | 256QAM | 100 | 0  | 18.37  | 18.36  | 18.29  |                        |             |
| Channel           |        |     |    | 132047 | 132322 | 132597 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |        |     |    | 1717.5 | 1745   | 1772.5 |                        |             |
| 15                | QPSK   | 1   | 0  | 21.70  | 21.81  | 21.69  | 23.5                   | 0           |
| 15                | QPSK   | 1   | 37 | 21.75  | 21.80  | 21.61  |                        |             |
| 15                | QPSK   | 1   | 74 | 21.68  | 21.75  | 21.67  |                        |             |
| 15                | QPSK   | 36  | 0  | 21.66  | 21.73  | 21.57  | 23.5                   | 0           |
| 15                | QPSK   | 36  | 20 | 21.81  | 21.66  | 21.60  |                        |             |
| 15                | QPSK   | 36  | 39 | 21.58  | 21.66  | 21.64  |                        |             |
| 15                | QPSK   | 75  | 0  | 21.62  | 21.73  | 21.53  |                        |             |
| 15                | 16QAM  | 1   | 0  | 21.69  | 21.79  | 21.63  | 23.5                   | 0           |
| 15                | 16QAM  | 1   | 37 | 21.76  | 21.82  | 21.61  |                        |             |
| 15                | 16QAM  | 1   | 74 | 21.68  | 21.81  | 21.53  |                        |             |
| 15                | 16QAM  | 36  | 0  | 21.22  | 21.33  | 21.24  | 23                     | 0.5         |
| 15                | 16QAM  | 36  | 20 | 21.20  | 21.33  | 21.14  |                        |             |
| 15                | 16QAM  | 36  | 39 | 21.11  | 21.21  | 21.17  |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 15              | 16QAM  | 75 | 0  | 21.14  | 21.28  | 21.02  | 23                     | 0.5         |
| 15              | 64QAM  | 1  | 0  | 21.24  | 21.34  | 21.35  |                        |             |
| 15              | 64QAM  | 1  | 37 | 21.32  | 21.51  | 21.37  |                        |             |
| 15              | 64QAM  | 1  | 74 | 21.36  | 21.51  | 21.22  |                        |             |
| 15              | 64QAM  | 36 | 0  | 20.15  | 20.22  | 20.18  | 22                     | 1.5         |
| 15              | 64QAM  | 36 | 20 | 20.14  | 20.21  | 20.03  |                        |             |
| 15              | 64QAM  | 36 | 39 | 20.09  | 20.28  | 20.14  |                        |             |
| 15              | 64QAM  | 75 | 0  | 20.15  | 20.20  | 20.15  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.12  | 18.35  | 18.11  | 20                     | 3.5         |
| 15              | 256QAM | 1  | 37 | 18.14  | 18.33  | 18.21  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.15  | 18.30  | 18.04  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.28  | 18.28  | 18.21  | 20                     | 3.5         |
| 15              | 256QAM | 36 | 20 | 18.15  | 18.29  | 18.29  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.06  | 18.25  | 18.07  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.19  | 18.32  | 18.26  |                        |             |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                        |             |
| 10              | QPSK   | 1  | 0  | 21.73  | 21.82  | 21.63  | 23.5                   | 0           |
| 10              | QPSK   | 1  | 25 | 21.78  | 21.86  | 21.67  |                        |             |
| 10              | QPSK   | 1  | 49 | 21.70  | 21.85  | 21.61  |                        |             |
| 10              | QPSK   | 25 | 0  | 21.63  | 21.79  | 21.50  | 23.5                   | 0           |
| 10              | QPSK   | 25 | 12 | 21.75  | 21.70  | 21.64  |                        |             |
| 10              | QPSK   | 25 | 25 | 21.62  | 21.70  | 21.60  |                        |             |
| 10              | QPSK   | 50 | 0  | 21.61  | 21.73  | 21.54  |                        |             |
| 10              | 16QAM  | 1  | 0  | 21.65  | 21.82  | 21.63  | 23.5                   | 0           |
| 10              | 16QAM  | 1  | 25 | 21.67  | 21.79  | 21.59  |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.61  | 21.73  | 21.53  |                        |             |
| 10              | 16QAM  | 25 | 0  | 21.34  | 21.34  | 21.08  | 23                     | 0.5         |
| 10              | 16QAM  | 25 | 12 | 21.00  | 21.27  | 21.20  |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.11  | 21.20  | 21.17  |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.21  | 21.33  | 21.05  |                        |             |
| 10              | 64QAM  | 1  | 0  | 21.26  | 21.53  | 21.38  | 23                     | 0.5         |
| 10              | 64QAM  | 1  | 25 | 21.51  | 21.41  | 21.21  |                        |             |
| 10              | 64QAM  | 1  | 49 | 21.29  | 21.36  | 21.26  |                        |             |
| 10              | 64QAM  | 25 | 0  | 20.03  | 20.09  | 20.07  | 22                     | 1.5         |
| 10              | 64QAM  | 25 | 12 | 20.11  | 20.17  | 20.14  |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.00  | 20.20  | 20.17  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.17  | 20.22  | 20.18  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.18  | 18.40  | 18.13  | 20                     | 3.5         |
| 10              | 256QAM | 1  | 25 | 18.30  | 18.18  | 18.10  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.18  | 18.28  | 18.07  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.24  | 18.34  | 18.22  | 20                     | 3.5         |
| 10              | 256QAM | 25 | 12 | 18.14  | 18.27  | 18.04  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.14  | 18.25  | 18.11  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.14  | 18.21  | 18.26  |                        |             |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 5               | QPSK   | 1  | 0  | 21.74  | 21.81  | 21.65  | 23.5                   | 0           |
| 5               | QPSK   | 1  | 12 | 21.81  | 21.85  | 21.61  |                        |             |
| 5               | QPSK   | 1  | 24 | 21.65  | 21.79  | 21.60  |                        |             |
| 5               | QPSK   | 12 | 0  | 21.66  | 21.80  | 21.54  | 23.5                   | 0           |
| 5               | QPSK   | 12 | 7  | 21.76  | 21.68  | 21.58  |                        |             |
| 5               | QPSK   | 12 | 13 | 21.57  | 21.65  | 21.59  |                        |             |
| 5               | QPSK   | 25 | 0  | 21.59  | 21.69  | 21.58  |                        |             |
| 5               | 16QAM  | 1  | 0  | 21.61  | 21.75  | 21.56  | 23.5                   | 0           |
| 5               | 16QAM  | 1  | 12 | 21.75  | 21.77  | 21.60  |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.69  | 21.75  | 21.54  |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.26  | 21.34  | 21.23  | 23                     | 0.5         |
| 5               | 16QAM  | 12 | 7  | 21.14  | 21.28  | 21.18  |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.18  | 21.31  | 21.10  |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.17  | 21.23  | 21.14  |                        |             |
| 5               | 64QAM  | 1  | 0  | 21.37  | 21.51  | 21.34  | 23                     | 0.5         |
| 5               | 64QAM  | 1  | 12 | 21.35  | 21.46  | 21.30  |                        |             |
| 5               | 64QAM  | 1  | 24 | 21.30  | 21.26  | 21.30  |                        |             |
| 5               | 64QAM  | 12 | 0  | 20.07  | 20.16  | 20.21  | 22                     | 1.5         |
| 5               | 64QAM  | 12 | 7  | 20.12  | 20.23  | 20.07  |                        |             |
| 5               | 64QAM  | 12 | 13 | 20.17  | 20.14  | 20.05  |                        |             |
| 5               | 64QAM  | 25 | 0  | 20.17  | 20.22  | 20.25  |                        |             |
| 5               | 256QAM | 1  | 0  | 18.22  | 18.40  | 18.19  | 20                     | 3.5         |
| 5               | 256QAM | 1  | 12 | 18.26  | 18.21  | 18.19  |                        |             |
| 5               | 256QAM | 1  | 24 | 18.17  | 18.41  | 18.08  |                        |             |
| 5               | 256QAM | 12 | 0  | 18.18  | 18.17  | 18.25  | 20                     | 3.5         |
| 5               | 256QAM | 12 | 7  | 18.14  | 18.28  | 18.01  |                        |             |
| 5               | 256QAM | 12 | 13 | 18.14  | 18.18  | 18.07  |                        |             |
| 5               | 256QAM | 25 | 0  | 18.11  | 18.41  | 18.11  |                        |             |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 |                        |             |
| 3               | QPSK   | 1  | 0  | 21.72  | 21.88  | 21.71  | 23.5                   | 0           |
| 3               | QPSK   | 1  | 8  | 21.86  | 21.78  | 21.65  |                        |             |
| 3               | QPSK   | 1  | 14 | 21.70  | 21.75  | 21.63  |                        |             |
| 3               | QPSK   | 8  | 0  | 21.68  | 21.83  | 21.59  | 23.5                   | 0           |
| 3               | QPSK   | 8  | 4  | 21.76  | 21.67  | 21.61  |                        |             |
| 3               | QPSK   | 8  | 7  | 21.57  | 21.70  | 21.57  |                        |             |
| 3               | QPSK   | 15 | 0  | 21.62  | 21.68  | 21.57  |                        |             |
| 3               | 16QAM  | 1  | 0  | 21.68  | 21.77  | 21.58  | 23.5                   | 0           |
| 3               | 16QAM  | 1  | 8  | 21.65  | 21.73  | 21.57  |                        |             |
| 3               | 16QAM  | 1  | 14 | 21.68  | 21.80  | 21.56  |                        |             |
| 3               | 16QAM  | 8  | 0  | 21.36  | 21.30  | 21.38  | 23                     | 0.5         |
| 3               | 16QAM  | 8  | 4  | 21.03  | 21.21  | 21.12  |                        |             |
| 3               | 16QAM  | 8  | 7  | 21.18  | 21.29  | 21.24  |                        |             |
| 3               | 16QAM  | 15 | 0  | 21.12  | 21.28  | 21.26  |                        |             |
| 3               | 64QAM  | 1  | 0  | 21.36  | 21.45  | 21.43  | 23                     | 0.5         |
| 3               | 64QAM  | 1  | 8  | 21.25  | 21.45  | 21.36  |                        |             |
| 3               | 64QAM  | 1  | 14 | 21.36  | 21.43  | 21.30  |                        |             |



|                 |        |    |    |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|------------------------|-------------|
| 3               | 64QAM  | 8  | 0  | 20.01  | 20.23  | 20.10  | 22                     | 1.5         |
| 3               | 64QAM  | 8  | 4  | 20.16  | 20.24  | 20.06  |                        |             |
| 3               | 64QAM  | 8  | 7  | 20.19  | 20.25  | 20.13  |                        |             |
| 3               | 64QAM  | 15 | 0  | 20.08  | 20.19  | 20.17  |                        |             |
| 3               | 256QAM | 1  | 0  | 18.20  | 18.28  | 18.25  | 20                     | 3.5         |
| 3               | 256QAM | 1  | 8  | 18.11  | 18.22  | 18.22  |                        |             |
| 3               | 256QAM | 1  | 14 | 18.18  | 18.24  | 18.12  |                        |             |
| 3               | 256QAM | 8  | 0  | 18.27  | 18.29  | 18.20  | 20                     | 3.5         |
| 3               | 256QAM | 8  | 4  | 18.15  | 18.22  | 18.12  |                        |             |
| 3               | 256QAM | 8  | 7  | 18.15  | 18.09  | 18.24  |                        |             |
| 3               | 256QAM | 15 | 0  | 18.12  | 18.36  | 18.16  |                        |             |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                        |             |
| 1.4             | QPSK   | 1  | 0  | 21.73  | 21.78  | 21.73  | 23.5                   | 0           |
| 1.4             | QPSK   | 1  | 3  | 21.87  | 21.80  | 21.57  |                        |             |
| 1.4             | QPSK   | 1  | 5  | 21.63  | 21.74  | 21.68  |                        |             |
| 1.4             | QPSK   | 3  | 0  | 21.75  | 21.83  | 21.72  |                        |             |
| 1.4             | QPSK   | 3  | 1  | 21.79  | 21.77  | 21.63  |                        |             |
| 1.4             | QPSK   | 3  | 3  | 21.70  | 21.76  | 21.65  |                        |             |
| 1.4             | QPSK   | 6  | 0  | 21.68  | 21.74  | 21.51  | 23.5                   | 0           |
| 1.4             | 16QAM  | 1  | 0  | 21.78  | 21.69  | 21.55  | 23.5                   | 0           |
| 1.4             | 16QAM  | 1  | 3  | 21.56  | 21.71  | 21.57  |                        |             |
| 1.4             | 16QAM  | 1  | 5  | 21.58  | 21.69  | 21.50  |                        |             |
| 1.4             | 16QAM  | 3  | 0  | 21.71  | 21.76  | 21.59  |                        |             |
| 1.4             | 16QAM  | 3  | 1  | 21.73  | 21.71  | 21.62  |                        |             |
| 1.4             | 16QAM  | 3  | 3  | 21.68  | 21.82  | 21.56  |                        |             |
| 1.4             | 16QAM  | 6  | 0  | 21.55  | 21.51  | 21.46  | 23                     | 0.5         |
| 1.4             | 64QAM  | 1  | 0  | 21.12  | 21.15  | 21.25  | 23                     | 0.5         |
| 1.4             | 64QAM  | 1  | 3  | 21.18  | 21.09  | 21.10  |                        |             |
| 1.4             | 64QAM  | 1  | 5  | 21.14  | 21.19  | 21.01  |                        |             |
| 1.4             | 64QAM  | 3  | 0  | 21.30  | 21.40  | 21.38  |                        |             |
| 1.4             | 64QAM  | 3  | 1  | 21.36  | 21.42  | 21.35  |                        |             |
| 1.4             | 64QAM  | 3  | 3  | 21.33  | 21.46  | 21.22  |                        |             |
| 1.4             | 64QAM  | 6  | 0  | 20.08  | 20.39  | 20.18  | 22                     | 1.5         |
| 1.4             | 256QAM | 1  | 0  | 18.11  | 18.19  | 18.08  | 20                     | 3.5         |
| 1.4             | 256QAM | 1  | 3  | 18.11  | 18.23  | 18.19  |                        |             |
| 1.4             | 256QAM | 1  | 5  | 18.25  | 18.19  | 18.26  |                        |             |
| 1.4             | 256QAM | 3  | 0  | 18.00  | 18.25  | 18.01  |                        |             |
| 1.4             | 256QAM | 3  | 1  | 18.21  | 18.24  | 18.18  |                        |             |
| 1.4             | 256QAM | 3  | 3  | 18.24  | 18.29  | 18.08  |                        |             |
| 1.4             | 256QAM | 6  | 0  | 18.14  | 18.28  | 18.22  | 20                     | 3.5         |



### <TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

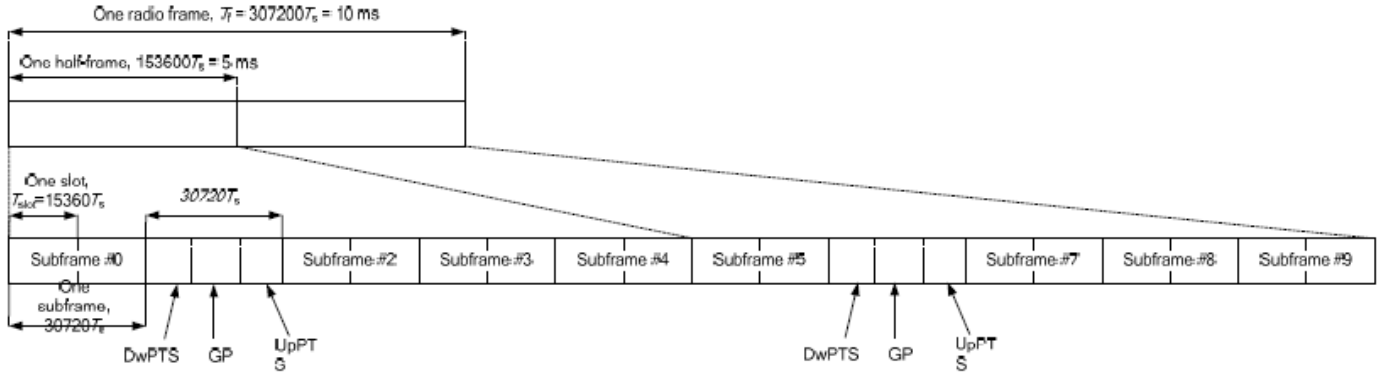


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | $6592 \cdot T_s$                 | $2192 \cdot T_s$               | $2560 \cdot T_s$                 | $7680 \cdot T_s$                   | $2192 \cdot T_s$               | $2560 \cdot T_s$                 |
| 1                              | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                              | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                              | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                              | $26336 \cdot T_s$                | $4384 \cdot T_s$               | $5120 \cdot T_s$                 | $7680 \cdot T_s$                   | $4384 \cdot T_s$               | $5120 \cdot T_s$                 |
| 5                              | $6592 \cdot T_s$                 |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 6                              | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                              | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  |                                |                                  |
| 8                              | $24144 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |
| 9                              | $13168 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |



| Special subframe (30720·T <sub>s</sub> ): Normal cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                    | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                         | 0~4                            | 7.13%                          | 8.33%                            |
|                                                                                    | 5~9                            | 14.3%                          | 16.7%                            |

| Special subframe(30720·T <sub>s</sub> ): Extended cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                     | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                          | 0~3                            | 7.13%                          | 8.33%                            |
|                                                                                     | 4~7                            | 14.3%                          | 16.7%                            |

The highest duty factor is resulted from:

For LTE TDD Power class 2

- Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, uplink operation is in 2 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(2+0.167)/5 = 43.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(2+0.143)/5 = 42.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $43.3\%/42.9\% = 1.009$  is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.

For LTE TDD Power class 3

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.143)/5 = 62.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.

The device can adjust uplink/downlink configuration automatically according to the transmitting power class level, as followings:

| LTE TDD Band | Power Class level | support uplink/downlink configuration |
|--------------|-------------------|---------------------------------------|
| LTE Band 41  | > 23              | 1,2,3,4,5                             |
|              | =23               | 0,1,2,3,4,5,6                         |
|              | < 23              | 0,1,2,3,4,5,6                         |

### Full&Default Power Mode

#### Band 38 Ant3 Default

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 22.70                 | 22.77                    | 22.69                  |                     |          |
| 20              | QPSK       | 1       | 49        | 22.76                 | 22.68                    | 22.61                  | 24                  | 0        |
| 20              | QPSK       | 1       | 99        | 22.54                 | 22.63                    | 22.58                  | 23                  | 1        |
| 20              | QPSK       | 50      | 0         | 21.76                 | 21.80                    | 21.64                  |                     |          |
| 20              | QPSK       | 50      | 24        | 21.56                 | 21.60                    | 21.64                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.78                 | 21.75                    | 21.70                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.68                 | 21.78                    | 21.76                  | 23                  | 1        |
| 20              | 16QAM      | 1       | 0         | 21.66                 | 21.73                    | 21.79                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 21.78                 | 21.69                    | 21.78                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 21.75                 | 21.73                    | 21.73                  | 22                  | 2        |
| 20              | 16QAM      | 50      | 0         | 20.76                 | 20.74                    | 20.66                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 20.51                 | 20.61                    | 20.69                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 20.72                 | 20.70                    | 20.69                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 20.71                 | 20.68                    | 20.67                  | 22                  | 2        |
| 20              | 64QAM      | 1       | 0         | 20.30                 | 20.35                    | 20.31                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 20.34                 | 20.36                    | 20.37                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 20.23                 | 20.28                    | 20.36                  | 21                  | 3        |
| 20              | 64QAM      | 50      | 0         | 19.71                 | 19.71                    | 19.76                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 19.68                 | 19.77                    | 19.72                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 19.64                 | 19.69                    | 19.78                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 19.86                 | 19.79                    | 19.70                  | 19                  | 5        |
| 20              | 256QAM     | 1       | 0         | 17.81                 | 17.90                    | 17.82                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 17.63                 | 17.71                    | 17.78                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 17.94                 | 17.85                    | 17.80                  | 19                  | 5        |
| 20              | 256QAM     | 50      | 0         | 17.67                 | 17.70                    | 17.76                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 17.81                 | 17.77                    | 17.73                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 17.81                 | 17.73                    | 17.68                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.84                 | 17.84                    | 17.83                  |                     |          |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 22.60                 | 22.62                    | 22.60                  | 24                  | 0        |
| 15              | QPSK       | 1       | 37        | 22.63                 | 22.59                    | 22.48                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.42                 | 22.56                    | 22.52                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.52                 | 21.55                    | 21.52                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 21.48                 | 21.55                    | 21.54                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.62                 | 21.67                    | 21.72                  |                     |          |
| 15              | QPSK       | 75      | 0         | 21.65                 | 21.56                    | 21.73                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 21.56                 | 21.61                    | 21.66                  | 23                  | 1        |
| 15              | 16QAM      | 1       | 37        | 21.62                 | 21.57                    | 21.71                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 21.58                 | 21.59                    | 21.56                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 16QAM  | 36 | 0  | 20.67 | 20.65 | 20.63 | 22                     | 2           |
| 15              | 16QAM  | 36 | 20 | 20.35 | 20.58 | 20.56 |                        |             |
| 15              | 16QAM  | 36 | 39 | 20.56 | 20.67 | 20.61 |                        |             |
| 15              | 16QAM  | 75 | 0  | 20.65 | 20.65 | 20.54 |                        |             |
| 15              | 64QAM  | 1  | 0  | 20.22 | 20.19 | 20.14 | 22                     | 2           |
| 15              | 64QAM  | 1  | 37 | 20.28 | 20.23 | 20.27 |                        |             |
| 15              | 64QAM  | 1  | 74 | 20.14 | 20.24 | 20.33 |                        |             |
| 15              | 64QAM  | 36 | 0  | 19.61 | 19.53 | 19.66 | 21                     | 3           |
| 15              | 64QAM  | 36 | 20 | 19.56 | 19.71 | 19.64 |                        |             |
| 15              | 64QAM  | 36 | 39 | 19.49 | 19.51 | 19.60 |                        |             |
| 15              | 64QAM  | 75 | 0  | 19.79 | 19.72 | 19.64 |                        |             |
| 15              | 256QAM | 1  | 0  | 17.79 | 17.82 | 17.79 | 19                     | 5           |
| 15              | 256QAM | 1  | 37 | 17.48 | 17.55 | 17.73 |                        |             |
| 15              | 256QAM | 1  | 74 | 17.79 | 17.82 | 17.63 |                        |             |
| 15              | 256QAM | 36 | 0  | 17.60 | 17.66 | 17.59 | 19                     | 5           |
| 15              | 256QAM | 36 | 20 | 17.63 | 17.71 | 17.66 |                        |             |
| 15              | 256QAM | 36 | 39 | 17.73 | 17.60 | 17.52 |                        |             |
| 15              | 256QAM | 75 | 0  | 17.81 | 17.68 | 17.73 |                        |             |
| Channel         |        |    |    | 37800 | 38000 | 38200 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575  | 2595  | 2615  |                        |             |
| 10              | QPSK   | 1  | 0  | 22.63 | 22.66 | 22.51 | 24                     | 0           |
| 10              | QPSK   | 1  | 25 | 22.60 | 22.54 | 22.53 |                        |             |
| 10              | QPSK   | 1  | 49 | 22.40 | 22.56 | 22.42 |                        |             |
| 10              | QPSK   | 25 | 0  | 21.48 | 21.63 | 21.54 | 23                     | 1           |
| 10              | QPSK   | 25 | 12 | 21.51 | 21.45 | 21.56 |                        |             |
| 10              | QPSK   | 25 | 25 | 21.75 | 21.57 | 21.65 |                        |             |
| 10              | QPSK   | 50 | 0  | 21.53 | 21.49 | 21.72 |                        |             |
| 10              | 16QAM  | 1  | 0  | 21.58 | 21.68 | 21.65 | 23                     | 1           |
| 10              | 16QAM  | 1  | 25 | 21.61 | 21.67 | 21.62 |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.61 | 21.64 | 21.71 |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.65 | 20.67 | 20.60 | 22                     | 2           |
| 10              | 16QAM  | 25 | 12 | 20.45 | 20.48 | 20.52 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.58 | 20.53 | 20.58 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.56 | 20.63 | 20.65 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.13 | 20.22 | 20.24 | 22                     | 2           |
| 10              | 64QAM  | 1  | 25 | 20.19 | 20.21 | 20.31 |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.19 | 20.16 | 20.28 |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.57 | 19.56 | 19.73 | 21                     | 3           |
| 10              | 64QAM  | 25 | 12 | 19.60 | 19.70 | 19.58 |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.50 | 19.57 | 19.63 |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.72 | 19.75 | 19.65 |                        |             |
| 10              | 256QAM | 1  | 0  | 17.67 | 17.77 | 17.70 | 19                     | 5           |
| 10              | 256QAM | 1  | 25 | 17.50 | 17.55 | 17.62 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.83 | 17.75 | 17.70 |                        |             |
| 10              | 256QAM | 25 | 0  | 17.59 | 17.65 | 17.69 | 19                     | 5           |
| 10              | 256QAM | 25 | 12 | 17.73 | 17.67 | 17.63 |                        |             |
| 10              | 256QAM | 25 | 25 | 17.75 | 17.65 | 17.57 |                        |             |
| 10              | 256QAM | 50 | 0  | 17.66 | 17.80 | 17.66 |                        |             |
| Channel         |        |    |    | 37775 | 38000 | 38225 | Tune-up limit          | MPR         |

| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 | (dBm) | (dB) |
|-----------------|--------|----|----|--------|-------|--------|-------|------|
| 5               | QPSK   | 1  | 0  | 22.66  | 22.67 | 22.60  | 24    | 0    |
| 5               | QPSK   | 1  | 12 | 22.70  | 22.66 | 22.54  |       |      |
| 5               | QPSK   | 1  | 24 | 22.47  | 22.54 | 22.44  |       |      |
| 5               | QPSK   | 12 | 0  | 21.52  | 21.62 | 21.48  | 23    | 1    |
| 5               | QPSK   | 12 | 7  | 21.53  | 21.56 | 21.49  |       |      |
| 5               | QPSK   | 12 | 13 | 21.69  | 21.57 | 21.74  |       |      |
| 5               | QPSK   | 25 | 0  | 21.56  | 21.56 | 21.74  |       |      |
| 5               | 16QAM  | 1  | 0  | 21.49  | 21.70 | 21.77  | 23    | 1    |
| 5               | 16QAM  | 1  | 12 | 21.76  | 21.61 | 21.64  |       |      |
| 5               | 16QAM  | 1  | 24 | 21.59  | 21.71 | 21.58  |       |      |
| 5               | 16QAM  | 12 | 0  | 20.63  | 20.61 | 20.64  | 22    | 2    |
| 5               | 16QAM  | 12 | 7  | 20.44  | 20.52 | 20.53  |       |      |
| 5               | 16QAM  | 12 | 13 | 20.64  | 20.62 | 20.61  |       |      |
| 5               | 16QAM  | 25 | 0  | 20.59  | 20.65 | 20.52  |       |      |
| 5               | 64QAM  | 1  | 0  | 20.22  | 20.20 | 20.17  | 22    | 2    |
| 5               | 64QAM  | 1  | 12 | 20.26  | 20.31 | 20.28  |       |      |
| 5               | 64QAM  | 1  | 24 | 20.14  | 20.20 | 20.20  |       |      |
| 5               | 64QAM  | 12 | 0  | 19.62  | 19.58 | 19.71  | 21    | 3    |
| 5               | 64QAM  | 12 | 7  | 19.55  | 19.63 | 19.64  |       |      |
| 5               | 64QAM  | 12 | 13 | 19.51  | 19.53 | 19.69  |       |      |
| 5               | 64QAM  | 25 | 0  | 19.69  | 19.74 | 19.58  |       |      |
| 5               | 256QAM | 1  | 0  | 17.70  | 17.76 | 17.76  | 19    | 5    |
| 5               | 256QAM | 1  | 12 | 17.50  | 17.54 | 17.74  |       |      |
| 5               | 256QAM | 1  | 24 | 17.85  | 17.82 | 17.70  |       |      |
| 5               | 256QAM | 12 | 0  | 17.55  | 17.54 | 17.65  | 19    | 5    |
| 5               | 256QAM | 12 | 7  | 17.69  | 17.67 | 17.61  |       |      |
| 5               | 256QAM | 12 | 13 | 17.79  | 17.62 | 17.58  |       |      |
| 5               | 256QAM | 25 | 0  | 17.77  | 17.68 | 17.73  |       |      |

| Band 41 Ant3 Default |            |         |           |                                       |                             |                                    |                                |                                     |                              |                           |             |
|----------------------|------------|---------|-----------|---------------------------------------|-----------------------------|------------------------------------|--------------------------------|-------------------------------------|------------------------------|---------------------------|-------------|
| BW [MHz]             | Modulation | RB Size | RB Offset | for IC<br>Power<br>Low<br>Ch. / Freq. | Power<br>Low<br>Ch. / Freq. | Power<br>Low Middle<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel              |            |         |           | 39790                                 | 39750                       | 40185                              | 40620                          | 41055                               | 41490                        | 24                        | 0           |
| Frequency (MHz)      |            |         |           | 2510                                  | 2506                        | 2549.5                             | 2593                           | 2636.5                              | 2680                         |                           |             |
| 20                   | QPSK       | 1       | 0         | 22.69                                 | 22.67                       | 22.70                              | 22.81                          | 22.72                               | 22.78                        |                           |             |
| 20                   | QPSK       | 1       | 49        | 22.73                                 | 22.77                       | 22.72                              | 22.78                          | 22.71                               | 22.70                        | 23                        | 1           |
| 20                   | QPSK       | 1       | 99        | 22.77                                 | 22.78                       | 22.67                              | 22.75                          | 22.79                               | 22.78                        |                           |             |
| 20                   | QPSK       | 50      | 0         | 21.80                                 | 21.81                       | 21.76                              | 21.83                          | 21.74                               | 21.71                        |                           |             |
| 20                   | QPSK       | 50      | 24        | 21.55                                 | 21.60                       | 21.65                              | 21.57                          | 21.50                               | 21.65                        |                           |             |
| 20                   | QPSK       | 50      | 50        | 21.68                                 | 21.73                       | 21.66                              | 21.74                          | 21.79                               | 21.82                        | 23                        | 1           |
| 20                   | QPSK       | 100     | 0         | 21.70                                 | 21.71                       | 21.65                              | 21.73                          | 21.60                               | 21.63                        |                           |             |
| 20                   | 16QAM      | 1       | 0         | 21.56                                 | 21.57                       | 21.56                              | 21.60                          | 21.60                               | 21.64                        |                           |             |
| 20                   | 16QAM      | 1       | 49        | 21.65                                 | 21.68                       | 21.67                              | 21.63                          | 21.65                               | 21.61                        | 22                        | 2           |
| 20                   | 16QAM      | 1       | 99        | 21.56                                 | 21.43                       | 21.49                              | 21.48                          | 21.42                               | 21.42                        |                           |             |
| 20                   | 16QAM      | 50      | 0         | 20.76                                 | 20.70                       | 20.77                              | 20.76                          | 20.70                               | 20.72                        |                           |             |
| 20                   | 16QAM      | 50      | 24        | 20.68                                 | 20.73                       | 20.72                              | 20.69                          | 20.76                               | 20.67                        | 22                        | 2           |

|                 |        |     |    |        |        |        |       |        |        |                           |             |
|-----------------|--------|-----|----|--------|--------|--------|-------|--------|--------|---------------------------|-------------|
| 20              | 16QAM  | 50  | 50 | 20.66  | 20.61  | 20.59  | 20.60 | 20.62  | 20.65  |                           |             |
| 20              | 16QAM  | 100 | 0  | 20.71  | 20.77  | 20.80  | 20.74 | 20.77  | 20.78  |                           |             |
| 20              | 64QAM  | 1   | 0  | 20.22  | 20.29  | 20.29  | 20.27 | 20.23  | 20.27  | 22                        | 2           |
| 20              | 64QAM  | 1   | 49 | 20.31  | 20.27  | 20.27  | 20.32 | 20.37  | 20.38  |                           |             |
| 20              | 64QAM  | 1   | 99 | 20.43  | 20.50  | 20.38  | 20.43 | 20.42  | 20.36  | 21                        | 3           |
| 20              | 64QAM  | 50  | 0  | 19.76  | 19.71  | 19.69  | 19.68 | 19.76  | 19.69  |                           |             |
| 20              | 64QAM  | 50  | 24 | 19.51  | 19.55  | 19.56  | 19.57 | 19.63  | 19.60  |                           |             |
| 20              | 64QAM  | 50  | 50 | 19.60  | 19.70  | 19.71  | 19.65 | 19.60  | 19.58  |                           |             |
| 20              | 64QAM  | 100 | 0  | 19.66  | 19.75  | 19.62  | 19.68 | 19.68  | 19.74  | 19                        | 5           |
| 20              | 256QAM | 1   | 0  | 17.74  | 17.81  | 17.81  | 17.78 | 17.86  | 17.79  |                           |             |
| 20              | 256QAM | 1   | 49 | 17.71  | 17.75  | 17.68  | 17.74 | 17.81  | 17.79  |                           |             |
| 20              | 256QAM | 1   | 99 | 17.57  | 17.60  | 17.54  | 17.58 | 17.61  | 17.57  | 19                        | 5           |
| 20              | 256QAM | 50  | 0  | 17.72  | 17.61  | 17.66  | 17.67 | 17.64  | 17.62  |                           |             |
| 20              | 256QAM | 50  | 24 | 17.78  | 17.86  | 17.87  | 17.81 | 17.86  | 17.80  |                           |             |
| 20              | 256QAM | 50  | 50 | 17.60  | 17.60  | 17.73  | 17.66 | 17.73  | 17.64  |                           |             |
| 20              | 256QAM | 100 | 0  | 17.87  | 17.83  | 17.93  | 17.89 | 17.83  | 17.85  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |     |    | 39765  | 39725  | 40173  | 40620 | 41068  | 41515  |                           |             |
| Frequency (MHz) |        |     |    | 2507.5 | 2503.5 | 2548.3 | 2593  | 2637.8 | 2682.5 | 24.00                     | 0           |
| 15              | QPSK   | 1   | 0  | 22.55  | 22.64  | 22.55  | 22.67 | 22.63  | 22.70  |                           |             |
| 15              | QPSK   | 1   | 37 | 22.56  | 22.66  | 22.59  | 22.68 | 22.64  | 22.52  |                           |             |
| 15              | QPSK   | 1   | 74 | 22.70  | 22.65  | 22.50  | 22.64 | 22.65  | 22.71  | 23                        | 1           |
| 15              | QPSK   | 36  | 0  | 21.49  | 21.60  | 21.49  | 21.41 | 21.62  | 21.44  |                           |             |
| 15              | QPSK   | 36  | 20 | 21.44  | 21.57  | 21.53  | 21.40 | 21.46  | 21.54  |                           |             |
| 15              | QPSK   | 36  | 39 | 21.60  | 21.61  | 21.48  | 21.64 | 21.71  | 21.67  |                           |             |
| 15              | QPSK   | 75  | 0  | 21.61  | 21.69  | 21.63  | 21.59 | 21.48  | 21.55  | 23                        | 1           |
| 15              | 16QAM  | 1   | 0  | 21.49  | 21.43  | 21.47  | 21.53 | 21.46  | 21.54  |                           |             |
| 15              | 16QAM  | 1   | 37 | 21.54  | 21.62  | 21.56  | 21.56 | 21.58  | 21.54  |                           |             |
| 15              | 16QAM  | 1   | 74 | 21.38  | 21.39  | 21.44  | 21.45 | 21.28  | 21.37  | 22                        | 2           |
| 15              | 16QAM  | 36  | 0  | 20.69  | 20.63  | 20.69  | 20.61 | 20.63  | 20.66  |                           |             |
| 15              | 16QAM  | 36  | 20 | 20.54  | 20.62  | 20.70  | 20.55 | 20.60  | 20.56  |                           |             |
| 15              | 16QAM  | 36  | 39 | 20.59  | 20.52  | 20.54  | 20.55 | 20.53  | 20.61  |                           |             |
| 15              | 16QAM  | 75  | 0  | 20.57  | 20.61  | 20.65  | 20.68 | 20.71  | 20.68  | 22                        | 2           |
| 15              | 64QAM  | 1   | 0  | 20.06  | 20.12  | 20.26  | 20.23 | 20.18  | 20.24  |                           |             |
| 15              | 64QAM  | 1   | 37 | 20.23  | 20.10  | 20.10  | 20.23 | 20.21  | 20.35  |                           |             |
| 15              | 64QAM  | 1   | 74 | 20.32  | 20.39  | 20.34  | 20.29 | 20.25  | 20.33  | 21                        | 3           |
| 15              | 64QAM  | 36  | 0  | 19.67  | 19.59  | 19.58  | 19.63 | 19.68  | 19.59  |                           |             |
| 15              | 64QAM  | 36  | 20 | 19.35  | 19.46  | 19.53  | 19.47 | 19.50  | 19.55  |                           |             |
| 15              | 64QAM  | 36  | 39 | 19.47  | 19.64  | 19.55  | 19.47 | 19.54  | 19.42  |                           |             |
| 15              | 64QAM  | 75  | 0  | 19.62  | 19.63  | 19.53  | 19.60 | 19.57  | 19.67  | 19                        | 5           |
| 15              | 256QAM | 1   | 0  | 17.68  | 17.66  | 17.74  | 17.74 | 17.82  | 17.68  |                           |             |
| 15              | 256QAM | 1   | 37 | 17.61  | 17.67  | 17.62  | 17.70 | 17.66  | 17.76  |                           |             |
| 15              | 256QAM | 1   | 74 | 17.43  | 17.49  | 17.50  | 17.49 | 17.57  | 17.54  | 19                        | 5           |
| 15              | 256QAM | 36  | 0  | 17.58  | 17.48  | 17.64  | 17.61 | 17.57  | 17.49  |                           |             |
| 15              | 256QAM | 36  | 20 | 17.71  | 17.81  | 17.73  | 17.70 | 17.83  | 17.75  |                           |             |
| 15              | 256QAM | 36  | 39 | 17.55  | 17.45  | 17.66  | 17.63 | 17.57  | 17.56  |                           |             |
| 15              | 256QAM | 75  | 0  | 17.76  | 17.74  | 17.84  | 17.85 | 17.74  | 17.74  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |     |    | 39740  | 39700  | 40160  | 40620 | 41080  | 41540  |                           |             |
| Frequency (MHz) |        |     |    | 2505   | 2501   | 2547   | 2593  | 2639   | 2685   | 24.00                     | 0           |
| 10              | QPSK   | 1   | 0  | 22.64  | 22.61  | 22.61  | 22.64 | 22.57  | 22.61  |                           |             |



|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 10              | QPSK   | 1  | 25 | 22.66  | 22.71  | 22.61  | 22.71 | 22.67   | 22.62  |                           |             |
| 10              | QPSK   | 1  | 49 | 22.65  | 22.64  | 22.49  | 22.66 | 22.74   | 22.64  |                           |             |
| 10              | QPSK   | 25 | 0  | 21.49  | 21.47  | 21.53  | 21.55 | 21.58   | 21.42  | 23                        | 1           |
| 10              | QPSK   | 25 | 12 | 21.51  | 21.44  | 21.58  | 21.48 | 21.39   | 21.49  |                           |             |
| 10              | QPSK   | 25 | 25 | 21.53  | 21.69  | 21.58  | 21.62 | 21.70   | 21.68  |                           |             |
| 10              | QPSK   | 50 | 0  | 21.58  | 21.55  | 21.49  | 21.52 | 21.53   | 21.55  |                           |             |
| 10              | 16QAM  | 1  | 0  | 21.41  | 21.54  | 21.52  | 21.52 | 21.45   | 21.49  | 23                        | 1           |
| 10              | 16QAM  | 1  | 25 | 21.56  | 21.51  | 21.54  | 21.54 | 21.62   | 21.53  |                           |             |
| 10              | 16QAM  | 1  | 49 | 21.51  | 21.30  | 21.40  | 21.41 | 21.25   | 21.36  |                           |             |
| 10              | 16QAM  | 25 | 0  | 20.73  | 20.62  | 20.66  | 20.66 | 20.53   | 20.60  | 22                        | 2           |
| 10              | 16QAM  | 25 | 12 | 20.56  | 20.62  | 20.65  | 20.65 | 20.65   | 20.55  |                           |             |
| 10              | 16QAM  | 25 | 25 | 20.53  | 20.47  | 20.50  | 20.57 | 20.51   | 20.61  |                           |             |
| 10              | 16QAM  | 50 | 0  | 20.63  | 20.73  | 20.67  | 20.64 | 20.61   | 20.74  |                           |             |
| 10              | 64QAM  | 1  | 0  | 20.09  | 20.18  | 20.13  | 20.19 | 20.21   | 20.19  | 22                        | 2           |
| 10              | 64QAM  | 1  | 25 | 20.28  | 20.17  | 20.10  | 20.23 | 20.31   | 20.36  |                           |             |
| 10              | 64QAM  | 1  | 49 | 20.37  | 20.37  | 20.33  | 20.35 | 20.27   | 20.24  |                           |             |
| 10              | 64QAM  | 25 | 0  | 19.62  | 19.58  | 19.53  | 19.51 | 19.63   | 19.61  | 21                        | 3           |
| 10              | 64QAM  | 25 | 12 | 19.34  | 19.53  | 19.52  | 19.43 | 19.59   | 19.52  |                           |             |
| 10              | 64QAM  | 25 | 25 | 19.44  | 19.53  | 19.61  | 19.49 | 19.56   | 19.46  |                           |             |
| 10              | 64QAM  | 50 | 0  | 19.62  | 19.64  | 19.49  | 19.53 | 19.54   | 19.68  |                           |             |
| 10              | 256QAM | 1  | 0  | 17.62  | 17.74  | 17.69  | 17.63 | 17.80   | 17.72  | 19                        | 5           |
| 10              | 256QAM | 1  | 25 | 17.54  | 17.68  | 17.59  | 17.70 | 17.75   | 17.65  |                           |             |
| 10              | 256QAM | 1  | 49 | 17.51  | 17.57  | 17.49  | 17.44 | 17.45   | 17.46  |                           |             |
| 10              | 256QAM | 25 | 0  | 17.63  | 17.58  | 17.53  | 17.58 | 17.59   | 17.50  | 19                        | 5           |
| 10              | 256QAM | 25 | 12 | 17.73  | 17.81  | 17.74  | 17.75 | 17.81   | 17.76  |                           |             |
| 10              | 256QAM | 25 | 25 | 17.54  | 17.53  | 17.57  | 17.58 | 17.70   | 17.47  |                           |             |
| 10              | 256QAM | 50 | 0  | 17.74  | 17.78  | 17.85  | 17.85 | 17.67   | 17.71  |                           |             |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 22.61  | 22.64  | 22.62  | 22.75 | 22.63   | 22.70  | 24.00                     | 0           |
| 5               | QPSK   | 1  | 12 | 22.57  | 22.70  | 22.55  | 22.72 | 22.54   | 22.66  |                           |             |
| 5               | QPSK   | 1  | 24 | 22.62  | 22.60  | 22.57  | 22.68 | 22.72   | 22.71  |                           |             |
| 5               | QPSK   | 12 | 0  | 21.61  | 21.51  | 21.39  | 21.43 | 21.55   | 21.34  | 23                        | 1           |
| 5               | QPSK   | 12 | 7  | 21.49  | 21.52  | 21.62  | 21.51 | 21.45   | 21.54  |                           |             |
| 5               | QPSK   | 12 | 13 | 21.56  | 21.61  | 21.56  | 21.62 | 21.67   | 21.80  |                           |             |
| 5               | QPSK   | 25 | 0  | 21.53  | 21.61  | 21.62  | 21.60 | 21.51   | 21.59  |                           |             |
| 5               | 16QAM  | 1  | 0  | 21.38  | 21.45  | 21.48  | 21.57 | 21.51   | 21.50  | 23                        | 1           |
| 5               | 16QAM  | 1  | 12 | 21.62  | 21.53  | 21.56  | 21.52 | 21.59   | 21.54  |                           |             |
| 5               | 16QAM  | 1  | 24 | 21.42  | 21.25  | 21.41  | 21.37 | 21.30   | 21.39  |                           |             |
| 5               | 16QAM  | 12 | 0  | 20.61  | 20.64  | 20.61  | 20.67 | 20.56   | 20.64  | 22                        | 2           |
| 5               | 16QAM  | 12 | 7  | 20.61  | 20.68  | 20.66  | 20.65 | 20.64   | 20.57  |                           |             |
| 5               | 16QAM  | 12 | 13 | 20.56  | 20.47  | 20.47  | 20.46 | 20.44   | 20.50  |                           |             |
| 5               | 16QAM  | 25 | 0  | 20.57  | 20.71  | 20.75  | 20.59 | 20.61   | 20.68  |                           |             |
| 5               | 64QAM  | 1  | 0  | 20.05  | 20.14  | 20.16  | 20.10 | 20.13   | 20.13  | 22                        | 2           |
| 5               | 64QAM  | 1  | 12 | 20.19  | 20.13  | 20.22  | 20.19 | 20.31   | 20.23  |                           |             |
| 5               | 64QAM  | 1  | 24 | 20.32  | 20.35  | 20.22  | 20.31 | 20.27   | 20.26  |                           |             |
| 5               | 64QAM  | 12 | 0  | 19.64  | 19.66  | 19.54  | 19.58 | 19.64   | 19.54  | 21                        | 3           |
| 5               | 64QAM  | 12 | 7  | 19.43  | 19.47  | 19.50  | 19.44 | 19.59   | 19.49  |                           |             |
| 5               | 64QAM  | 12 | 13 | 19.55  | 19.61  | 19.54  | 19.63 | 19.55   | 19.47  |                           |             |

|   |        |    |    |       |       |       |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|-------|-------|-------|----|---|
| 5 | 64QAM  | 25 | 0  | 19.61 | 19.61 | 19.51 | 19.64 | 19.60 | 19.63 |    |   |
| 5 | 256QAM | 1  | 0  | 17.66 | 17.69 | 17.67 | 17.75 | 17.76 | 17.67 | 19 | 5 |
| 5 | 256QAM | 1  | 12 | 17.57 | 17.68 | 17.58 | 17.69 | 17.67 | 17.66 |    |   |
| 5 | 256QAM | 1  | 24 | 17.47 | 17.54 | 17.43 | 17.49 | 17.50 | 17.53 |    |   |
| 5 | 256QAM | 12 | 0  | 17.64 | 17.47 | 17.53 | 17.50 | 17.60 | 17.53 | 19 | 5 |
| 5 | 256QAM | 12 | 7  | 17.75 | 17.83 | 17.77 | 17.66 | 17.72 | 17.62 |    |   |
| 5 | 256QAM | 12 | 13 | 17.46 | 17.50 | 17.67 | 17.52 | 17.61 | 17.54 |    |   |
| 5 | 256QAM | 25 | 0  | 17.77 | 17.75 | 17.77 | 17.82 | 17.65 | 17.76 |    |   |

| Band 41 HPUE Ant3 Default |            |         |           |                              |                       |                              |                          |        |                        |                     |          |
|---------------------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|--------|------------------------|---------------------|----------|
| BW [MHz]                  | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | 25.77  | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                   |            |         |           | 39790                        | 39750                 | 40185                        | 40620                    | 41055  | 41490                  |                     |          |
| Frequency (MHz)           |            |         |           | 2510                         | 2506                  | 2549.5                       | 2593                     | 2636.5 | 2680                   |                     |          |
| 20                        | QPSK       | 1       | 0         | 25.89                        | 25.76                 | 25.90                        | 26.01                    | 25.91  | 25.96                  | 27                  | 0        |
| 20                        | QPSK       | 1       | 49        | 25.94                        | 25.93                 | 25.89                        | 25.93                    | 26.00  | 25.90                  |                     |          |
| 20                        | QPSK       | 1       | 99        | 25.87                        | 25.88                 | 25.83                        | 25.87                    | 25.90  | 25.95                  |                     |          |
| 20                        | QPSK       | 50      | 0         | 24.95                        | 24.86                 | 24.94                        | 25.04                    | 24.87  | 24.86                  | 26                  | 1        |
| 20                        | QPSK       | 50      | 24        | 24.99                        | 24.96                 | 24.95                        | 24.97                    | 24.91  | 24.94                  |                     |          |
| 20                        | QPSK       | 50      | 50        | 24.93                        | 24.98                 | 24.97                        | 24.92                    | 24.90  | 25.00                  |                     |          |
| 20                        | QPSK       | 100     | 0         | 24.99                        | 25.10                 | 24.98                        | 25.11                    | 25.00  | 24.98                  | 26                  | 1        |
| 20                        | 16QAM      | 1       | 0         | 25.24                        | 25.29                 | 25.18                        | 25.22                    | 25.22  | 25.19                  |                     |          |
| 20                        | 16QAM      | 1       | 49        | 25.10                        | 25.15                 | 25.20                        | 25.13                    | 25.09  | 25.06                  |                     |          |
| 20                        | 16QAM      | 1       | 99        | 25.22                        | 25.18                 | 25.23                        | 25.18                    | 25.23  | 25.22                  | 25                  | 2        |
| 20                        | 16QAM      | 50      | 0         | 23.92                        | 23.94                 | 23.89                        | 23.91                    | 23.99  | 23.97                  |                     |          |
| 20                        | 16QAM      | 50      | 24        | 23.98                        | 23.89                 | 23.95                        | 23.92                    | 23.88  | 23.93                  |                     |          |
| 20                        | 16QAM      | 50      | 50        | 23.93                        | 23.95                 | 23.82                        | 23.88                    | 23.81  | 23.92                  | 25                  | 2        |
| 20                        | 16QAM      | 100     | 0         | 23.97                        | 23.92                 | 23.92                        | 23.99                    | 24.06  | 24.06                  |                     |          |
| 20                        | 64QAM      | 1       | 0         | 23.86                        | 23.85                 | 23.97                        | 23.90                    | 23.96  | 23.83                  |                     |          |
| 20                        | 64QAM      | 1       | 49        | 23.78                        | 23.76                 | 23.67                        | 23.75                    | 23.79  | 23.82                  | 24                  | 3        |
| 20                        | 64QAM      | 1       | 99        | 23.75                        | 23.74                 | 23.82                        | 23.76                    | 23.81  | 23.82                  |                     |          |
| 20                        | 64QAM      | 50      | 0         | 23.02                        | 23.05                 | 22.97                        | 23.01                    | 23.07  | 23.01                  |                     |          |
| 20                        | 64QAM      | 50      | 24        | 22.89                        | 22.96                 | 22.93                        | 22.94                    | 22.95  | 22.89                  | 22                  | 5        |
| 20                        | 64QAM      | 50      | 50        | 23.06                        | 23.19                 | 23.18                        | 23.13                    | 23.11  | 23.18                  |                     |          |
| 20                        | 64QAM      | 100     | 0         | 22.99                        | 22.89                 | 23.00                        | 22.93                    | 22.90  | 22.93                  |                     |          |
| 20                        | 256QAM     | 1       | 0         | 21.10                        | 21.23                 | 21.14                        | 21.15                    | 21.15  | 21.09                  | 22                  | 5        |
| 20                        | 256QAM     | 1       | 49        | 21.30                        | 21.20                 | 21.28                        | 21.24                    | 21.31  | 21.30                  |                     |          |
| 20                        | 256QAM     | 1       | 99        | 21.18                        | 21.16                 | 21.12                        | 21.16                    | 21.20  | 21.23                  |                     |          |
| 20                        | 256QAM     | 50      | 0         | 20.90                        | 21.02                 | 20.95                        | 20.96                    | 20.94  | 20.95                  | 22                  | 5        |
| 20                        | 256QAM     | 50      | 24        | 21.11                        | 21.02                 | 21.01                        | 21.07                    | 21.12  | 21.03                  |                     |          |
| 20                        | 256QAM     | 50      | 50        | 20.91                        | 20.92                 | 21.00                        | 20.97                    | 20.94  | 21.02                  |                     |          |
| 20                        | 256QAM     | 100     | 0         | 21.14                        | 21.16                 | 21.19                        | 21.13                    | 21.07  | 21.08                  | 27.00               | 0        |
| Channel                   |            |         |           | 39765                        | 39725                 | 40173                        | 40620                    | 41068  | 41515                  |                     |          |
| Frequency (MHz)           |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8 | 2682.5                 |                     |          |
| 15                        | QPSK       | 1       | 0         | 25.79                        | 25.64                 | 25.86                        | 25.96                    | 25.77  | 25.81                  | 27.00               | 0        |
| 15                        | QPSK       | 1       | 37        | 25.86                        | 25.84                 | 25.86                        | 25.90                    | 25.94  | 25.84                  |                     |          |
| 15                        | QPSK       | 1       | 74        | 25.74                        | 25.71                 | 25.77                        | 25.73                    | 25.82  | 25.91                  |                     |          |



|                 |        |    |    |       |       |       |       |       |       |                           |             |
|-----------------|--------|----|----|-------|-------|-------|-------|-------|-------|---------------------------|-------------|
| 15              | QPSK   | 36 | 0  | 24.81 | 24.77 | 24.80 | 24.83 | 24.77 | 24.76 | 26                        | 1           |
| 15              | QPSK   | 36 | 20 | 24.85 | 24.92 | 24.79 | 24.89 | 25.01 | 24.88 |                           |             |
| 15              | QPSK   | 36 | 39 | 24.78 | 24.85 | 24.88 | 24.77 | 24.72 | 24.97 |                           |             |
| 15              | QPSK   | 75 | 0  | 24.85 | 24.95 | 24.82 | 24.85 | 24.91 | 24.86 | 26                        | 1           |
| 15              | 16QAM  | 1  | 0  | 25.11 | 25.20 | 25.03 | 25.14 | 25.08 | 25.09 |                           |             |
| 15              | 16QAM  | 1  | 37 | 25.01 | 25.05 | 25.10 | 25.03 | 24.94 | 24.88 |                           |             |
| 15              | 16QAM  | 1  | 74 | 25.19 | 25.02 | 25.20 | 25.10 | 25.14 | 25.16 | 25                        | 2           |
| 15              | 16QAM  | 36 | 0  | 23.83 | 23.82 | 23.85 | 23.81 | 23.94 | 23.92 |                           |             |
| 15              | 16QAM  | 36 | 20 | 23.92 | 23.79 | 23.84 | 23.85 | 23.86 | 23.75 |                           |             |
| 15              | 16QAM  | 36 | 39 | 23.86 | 23.91 | 23.65 | 23.82 | 23.65 | 23.77 | 25                        | 2           |
| 15              | 16QAM  | 75 | 0  | 23.93 | 23.82 | 23.87 | 23.85 | 23.91 | 23.95 |                           |             |
| 15              | 64QAM  | 1  | 0  | 23.75 | 23.70 | 23.81 | 23.88 | 23.81 | 23.74 |                           |             |
| 15              | 64QAM  | 1  | 37 | 23.67 | 23.65 | 23.63 | 23.62 | 23.63 | 23.74 | 25                        | 2           |
| 15              | 64QAM  | 1  | 74 | 23.58 | 23.66 | 23.73 | 23.71 | 23.63 | 23.69 |                           |             |
| 15              | 64QAM  | 36 | 0  | 22.98 | 22.94 | 22.81 | 22.83 | 22.92 | 22.92 | 24                        | 3           |
| 15              | 64QAM  | 36 | 20 | 22.83 | 22.87 | 22.77 | 22.81 | 22.80 | 22.72 |                           |             |
| 15              | 64QAM  | 36 | 39 | 22.98 | 23.03 | 23.12 | 22.99 | 22.96 | 23.03 |                           |             |
| 15              | 64QAM  | 75 | 0  | 22.90 | 22.75 | 22.94 | 22.88 | 22.80 | 22.89 | 22                        | 5           |
| 15              | 256QAM | 1  | 0  | 20.98 | 21.11 | 21.11 | 21.03 | 20.99 | 21.07 |                           |             |
| 15              | 256QAM | 1  | 37 | 21.19 | 21.09 | 21.23 | 21.20 | 21.20 | 21.26 |                           |             |
| 15              | 256QAM | 1  | 74 | 21.08 | 21.12 | 21.01 | 21.13 | 21.09 | 21.11 | 22                        | 5           |
| 15              | 256QAM | 36 | 0  | 20.78 | 20.91 | 20.81 | 20.82 | 20.79 | 20.91 |                           |             |
| 15              | 256QAM | 36 | 20 | 21.06 | 20.91 | 20.86 | 20.95 | 21.02 | 20.94 |                           |             |
| 15              | 256QAM | 36 | 39 | 20.77 | 20.75 | 20.95 | 20.88 | 20.90 | 20.97 | 22                        | 5           |
| 15              | 256QAM | 75 | 0  | 21.00 | 21.02 | 21.03 | 21.08 | 20.95 | 20.98 |                           |             |
| Channel         |        |    |    | 39740 | 39700 | 40160 | 40620 | 41080 | 41540 | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2505  | 2501  | 2547  | 2593  | 2639  | 2685  |                           |             |
| 10              | QPSK   | 1  | 0  | 25.80 | 25.64 | 25.74 | 25.87 | 25.77 | 25.90 | 27.00                     | 0           |
| 10              | QPSK   | 1  | 25 | 25.76 | 25.82 | 25.85 | 25.81 | 25.82 | 25.76 |                           |             |
| 10              | QPSK   | 1  | 49 | 25.71 | 25.76 | 25.70 | 25.80 | 25.74 | 25.85 |                           |             |
| 10              | QPSK   | 25 | 0  | 24.82 | 24.74 | 24.88 | 24.74 | 24.74 | 24.72 | 26                        | 1           |
| 10              | QPSK   | 25 | 12 | 24.88 | 24.94 | 24.92 | 24.91 | 24.96 | 24.88 |                           |             |
| 10              | QPSK   | 25 | 25 | 24.82 | 24.90 | 24.81 | 24.76 | 24.82 | 24.95 |                           |             |
| 10              | QPSK   | 50 | 0  | 24.94 | 24.99 | 24.90 | 24.80 | 24.90 | 24.81 | 26                        | 1           |
| 10              | 16QAM  | 1  | 0  | 25.19 | 25.21 | 25.00 | 25.12 | 25.06 | 25.13 |                           |             |
| 10              | 16QAM  | 1  | 25 | 24.96 | 24.98 | 25.16 | 24.97 | 25.03 | 24.91 |                           |             |
| 10              | 16QAM  | 1  | 49 | 25.18 | 25.14 | 25.18 | 25.10 | 25.09 | 25.13 | 25                        | 2           |
| 10              | 16QAM  | 25 | 0  | 23.78 | 23.92 | 23.76 | 23.77 | 23.90 | 23.80 |                           |             |
| 10              | 16QAM  | 25 | 12 | 23.92 | 23.79 | 23.83 | 23.84 | 23.81 | 23.75 |                           |             |
| 10              | 16QAM  | 25 | 25 | 23.84 | 23.93 | 23.73 | 23.77 | 23.66 | 23.81 | 25                        | 2           |
| 10              | 16QAM  | 50 | 0  | 23.85 | 23.82 | 23.81 | 23.92 | 23.99 | 23.93 |                           |             |
| 10              | 64QAM  | 1  | 0  | 23.83 | 23.82 | 23.88 | 23.81 | 23.83 | 23.67 |                           |             |
| 10              | 64QAM  | 1  | 25 | 23.71 | 23.58 | 23.63 | 23.73 | 23.62 | 23.71 | 25                        | 2           |
| 10              | 64QAM  | 1  | 49 | 23.64 | 23.65 | 23.69 | 23.73 | 23.72 | 23.67 |                           |             |
| 10              | 64QAM  | 25 | 0  | 22.87 | 22.93 | 22.92 | 22.89 | 22.90 | 22.95 |                           |             |
| 10              | 64QAM  | 25 | 12 | 22.74 | 22.87 | 22.84 | 22.80 | 22.82 | 22.77 | 24                        | 3           |
| 10              | 64QAM  | 25 | 25 | 22.91 | 23.10 | 23.12 | 23.08 | 22.99 | 23.07 |                           |             |
| 10              | 64QAM  | 50 | 0  | 22.84 | 22.86 | 22.92 | 22.75 | 22.82 | 22.90 |                           |             |
| 10              | 256QAM | 1  | 0  | 21.03 | 21.14 | 21.12 | 20.99 | 21.03 | 20.97 | 22                        | 5           |



|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 10              | 256QAM | 1  | 25 | 21.23  | 21.06  | 21.13  | 21.10 | 21.16   | 21.24  |                           |             |
| 10              | 256QAM | 1  | 49 | 21.14  | 21.10  | 20.99  | 21.00 | 21.03   | 21.20  |                           |             |
| 10              | 256QAM | 25 | 0  | 20.80  | 20.95  | 20.82  | 20.78 | 20.84   | 20.85  |                           |             |
| 10              | 256QAM | 25 | 12 | 20.96  | 20.91  | 20.92  | 21.02 | 21.07   | 20.93  | 22                        | 5           |
| 10              | 256QAM | 25 | 25 | 20.85  | 20.85  | 20.85  | 20.84 | 20.86   | 20.87  |                           |             |
| 10              | 256QAM | 50 | 0  | 21.09  | 21.13  | 21.07  | 21.05 | 21.03   | 20.99  |                           |             |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 25.71  | 25.70  | 25.73  | 25.94 | 25.73   | 25.82  | 27.00                     | 0           |
| 5               | QPSK   | 1  | 12 | 25.83  | 25.82  | 25.75  | 25.89 | 25.82   | 25.73  |                           |             |
| 5               | QPSK   | 1  | 24 | 25.72  | 25.83  | 25.81  | 25.76 | 25.78   | 25.81  |                           |             |
| 5               | QPSK   | 12 | 0  | 24.84  | 24.83  | 24.79  | 24.87 | 24.78   | 24.76  | 26                        | 1           |
| 5               | QPSK   | 12 | 7  | 24.85  | 24.92  | 24.91  | 24.80 | 24.99   | 24.80  |                           |             |
| 5               | QPSK   | 12 | 13 | 24.88  | 24.86  | 24.80  | 24.90 | 24.74   | 24.88  |                           |             |
| 5               | QPSK   | 25 | 0  | 24.85  | 24.94  | 24.81  | 24.82 | 24.90   | 24.95  |                           |             |
| 5               | 16QAM  | 1  | 0  | 25.07  | 25.14  | 25.00  | 25.11 | 25.10   | 25.09  | 26                        | 1           |
| 5               | 16QAM  | 1  | 12 | 25.01  | 25.01  | 25.18  | 24.98 | 24.95   | 24.93  |                           |             |
| 5               | 16QAM  | 1  | 24 | 25.14  | 25.02  | 25.17  | 25.01 | 25.18   | 25.07  |                           |             |
| 5               | 16QAM  | 12 | 0  | 23.90  | 23.84  | 23.77  | 23.75 | 23.92   | 23.93  | 25                        | 2           |
| 5               | 16QAM  | 12 | 7  | 23.87  | 23.81  | 23.82  | 23.79 | 23.86   | 23.82  |                           |             |
| 5               | 16QAM  | 12 | 13 | 23.78  | 23.83  | 23.71  | 23.73 | 23.77   | 23.80  |                           |             |
| 5               | 16QAM  | 25 | 0  | 23.89  | 23.86  | 23.74  | 23.85 | 23.93   | 23.94  |                           |             |
| 5               | 64QAM  | 1  | 0  | 23.83  | 23.78  | 23.87  | 23.75 | 23.88   | 23.76  | 25                        | 2           |
| 5               | 64QAM  | 1  | 12 | 23.70  | 23.66  | 23.61  | 23.64 | 23.76   | 23.69  |                           |             |
| 5               | 64QAM  | 1  | 24 | 23.66  | 23.66  | 23.79  | 23.61 | 23.73   | 23.72  |                           |             |
| 5               | 64QAM  | 12 | 0  | 23.00  | 23.00  | 22.95  | 22.94 | 22.95   | 22.94  | 24                        | 3           |
| 5               | 64QAM  | 12 | 7  | 22.75  | 22.83  | 22.79  | 22.78 | 22.80   | 22.84  |                           |             |
| 5               | 64QAM  | 12 | 13 | 22.95  | 23.14  | 23.01  | 23.07 | 23.00   | 23.02  |                           |             |
| 5               | 64QAM  | 25 | 0  | 22.84  | 22.84  | 22.97  | 22.77 | 22.81   | 22.78  |                           |             |
| 5               | 256QAM | 1  | 0  | 21.00  | 21.08  | 21.11  | 21.03 | 21.06   | 20.97  | 22                        | 5           |
| 5               | 256QAM | 1  | 12 | 21.24  | 21.06  | 21.17  | 21.12 | 21.23   | 21.23  |                           |             |
| 5               | 256QAM | 1  | 24 | 21.04  | 21.06  | 21.02  | 21.13 | 21.11   | 21.19  |                           |             |
| 5               | 256QAM | 12 | 0  | 20.85  | 20.97  | 20.83  | 20.83 | 20.84   | 20.85  | 22                        | 5           |
| 5               | 256QAM | 12 | 7  | 21.08  | 20.84  | 20.98  | 20.98 | 20.97   | 20.92  |                           |             |
| 5               | 256QAM | 12 | 13 | 20.74  | 20.80  | 20.95  | 20.93 | 20.92   | 20.92  |                           |             |
| 5               | 256QAM | 25 | 0  | 20.97  | 21.04  | 21.12  | 21.09 | 20.90   | 20.91  |                           |             |

| Band 48 Ant4 Default |            |         |           |                       |                              |                               |                        |                     |          |
|----------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel              |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |
| Frequency (MHz)      |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |
| 20                   | QPSK       | 1       | 0         | 21.79                 | 21.90                        | 21.86                         | 21.85                  | 23                  | 0        |
| 20                   | QPSK       | 1       | 49        | 21.81                 | 21.82                        | 21.84                         | 21.77                  |                     |          |
| 20                   | QPSK       | 1       | 99        | 21.79                 | 21.81                        | 21.76                         | 21.74                  |                     |          |
| 20                   | QPSK       | 50      | 0         | 20.97                 | 21.13                        | 20.86                         | 20.99                  | 22                  | 1        |
| 20                   | QPSK       | 50      | 24        | 21.00                 | 20.96                        | 21.00                         | 20.97                  |                     |          |
| 20                   | QPSK       | 50      | 50        | 20.95                 | 20.96                        | 21.02                         | 20.92                  |                     |          |
| 20                   | QPSK       | 100     | 0         | 20.90                 | 21.07                        | 21.02                         | 20.93                  |                     |          |
| 20                   | 16QAM      | 1       | 0         | 20.80                 | 20.73                        | 20.69                         | 20.78                  | 22                  | 1        |
| 20                   | 16QAM      | 1       | 49        | 20.77                 | 20.75                        | 20.70                         | 20.68                  |                     |          |
| 20                   | 16QAM      | 1       | 99        | 20.70                 | 20.73                        | 20.70                         | 20.65                  |                     |          |
| 20                   | 16QAM      | 50      | 0         | 19.82                 | 19.80                        | 19.83                         | 19.85                  | 21                  | 2        |
| 20                   | 16QAM      | 50      | 24        | 19.92                 | 19.97                        | 19.93                         | 19.97                  |                     |          |
| 20                   | 16QAM      | 50      | 50        | 20.01                 | 19.99                        | 19.96                         | 19.94                  |                     |          |
| 20                   | 16QAM      | 100     | 0         | 19.88                 | 19.94                        | 19.97                         | 19.96                  |                     |          |
| 20                   | 64QAM      | 1       | 0         | 19.74                 | 19.69                        | 19.71                         | 19.77                  | 21                  | 2        |
| 20                   | 64QAM      | 1       | 49        | 19.65                 | 19.66                        | 19.67                         | 19.64                  |                     |          |
| 20                   | 64QAM      | 1       | 99        | 19.71                 | 19.64                        | 19.66                         | 19.64                  |                     |          |
| 20                   | 64QAM      | 50      | 0         | 19.02                 | 18.95                        | 19.02                         | 18.99                  | 20                  | 3        |
| 20                   | 64QAM      | 50      | 24        | 18.78                 | 18.74                        | 18.72                         | 18.80                  |                     |          |
| 20                   | 64QAM      | 50      | 50        | 19.02                 | 18.95                        | 18.96                         | 18.90                  |                     |          |
| 20                   | 64QAM      | 100     | 0         | 18.88                 | 18.82                        | 18.86                         | 18.83                  |                     |          |
| 20                   | 256QAM     | 1       | 0         | 16.72                 | 16.79                        | 16.75                         | 16.76                  | 18                  | 5        |
| 20                   | 256QAM     | 1       | 49        | 16.79                 | 16.72                        | 16.69                         | 16.65                  |                     |          |
| 20                   | 256QAM     | 1       | 99        | 16.70                 | 16.72                        | 16.70                         | 16.71                  |                     |          |
| 20                   | 256QAM     | 50      | 0         | 17.02                 | 17.02                        | 17.09                         | 17.06                  | 18                  | 5        |
| 20                   | 256QAM     | 50      | 24        | 16.97                 | 17.02                        | 17.05                         | 16.94                  |                     |          |
| 20                   | 256QAM     | 50      | 50        | 16.79                 | 16.80                        | 16.81                         | 16.73                  |                     |          |
| 20                   | 256QAM     | 100     | 0         | 16.97                 | 16.92                        | 16.98                         | 16.91                  |                     |          |
| Channel              |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |
| 15                   | QPSK       | 1       | 0         | 21.62                 | 21.79                        | 21.71                         | 21.69                  |                     |          |
| 15                   | QPSK       | 1       | 37        | 21.77                 | 21.73                        | 21.66                         | 21.64                  | 23                  | 0        |
| 15                   | QPSK       | 1       | 74        | 21.72                 | 21.74                        | 21.71                         | 21.70                  |                     |          |
| 15                   | QPSK       | 36      | 0         | 20.80                 | 20.75                        | 20.80                         | 20.84                  | 22                  | 1        |
| 15                   | QPSK       | 36      | 20        | 20.91                 | 20.88                        | 20.84                         | 20.94                  |                     |          |
| 15                   | QPSK       | 36      | 39        | 20.87                 | 20.90                        | 20.99                         | 20.82                  |                     |          |
| 15                   | QPSK       | 75      | 0         | 20.81                 | 20.89                        | 20.89                         | 20.81                  |                     |          |
| 15                   | 16QAM      | 1       | 0         | 20.72                 | 20.66                        | 20.60                         | 20.64                  | 22                  | 1        |
| 15                   | 16QAM      | 1       | 37        | 20.63                 | 20.66                        | 20.58                         | 20.60                  |                     |          |
| 15                   | 16QAM      | 1       | 74        | 20.61                 | 20.60                        | 20.64                         | 20.65                  |                     |          |
| 15                   | 16QAM      | 36      | 0         | 19.65                 | 19.73                        | 19.67                         | 19.81                  | 21                  | 2        |



|                 |        |    |    |        |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 19.78  | 19.95  | 19.83  | 19.82  |                        |             |
| 15              | 16QAM  | 36 | 39 | 19.91  | 19.92  | 19.80  | 19.90  |                        |             |
| 15              | 16QAM  | 75 | 0  | 19.76  | 19.91  | 19.81  | 19.85  |                        |             |
| 15              | 64QAM  | 1  | 0  | 19.59  | 19.52  | 19.58  | 19.61  | 21                     | 2           |
| 15              | 64QAM  | 1  | 37 | 19.67  | 19.66  | 19.54  | 19.56  |                        |             |
| 15              | 64QAM  | 1  | 74 | 19.56  | 19.52  | 19.54  | 19.51  |                        |             |
| 15              | 64QAM  | 36 | 0  | 18.98  | 18.81  | 18.98  | 18.90  | 20                     | 3           |
| 15              | 64QAM  | 36 | 20 | 18.69  | 18.58  | 18.57  | 18.63  |                        |             |
| 15              | 64QAM  | 36 | 39 | 18.84  | 18.91  | 18.89  | 18.86  |                        |             |
| 15              | 64QAM  | 75 | 0  | 18.76  | 18.74  | 18.78  | 18.71  | 18                     | 5           |
| 15              | 256QAM | 1  | 0  | 16.56  | 16.61  | 16.66  | 16.71  |                        |             |
| 15              | 256QAM | 1  | 37 | 16.70  | 16.63  | 16.53  | 16.55  |                        |             |
| 15              | 256QAM | 1  | 74 | 16.67  | 16.69  | 16.58  | 16.59  | 18                     | 5           |
| 15              | 256QAM | 36 | 0  | 16.86  | 16.94  | 16.98  | 16.91  |                        |             |
| 15              | 256QAM | 36 | 20 | 16.82  | 16.84  | 16.99  | 16.86  |                        |             |
| 15              | 256QAM | 36 | 39 | 16.63  | 16.75  | 16.79  | 16.57  | 18                     | 5           |
| 15              | 256QAM | 75 | 0  | 16.81  | 16.85  | 16.84  | 16.78  |                        |             |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |             |
| 10              | QPSK   | 1  | 0  | 21.66  | 21.83  | 21.82  | 21.67  | 23                     | 0           |
| 10              | QPSK   | 1  | 25 | 21.71  | 21.71  | 21.71  | 21.64  |                        |             |
| 10              | QPSK   | 1  | 49 | 21.74  | 21.77  | 21.69  | 21.65  |                        |             |
| 10              | QPSK   | 25 | 0  | 20.81  | 20.84  | 20.84  | 20.97  | 22                     | 1           |
| 10              | QPSK   | 25 | 12 | 20.90  | 20.83  | 20.87  | 20.90  |                        |             |
| 10              | QPSK   | 25 | 25 | 20.79  | 20.85  | 20.96  | 20.76  |                        |             |
| 10              | QPSK   | 50 | 0  | 20.74  | 20.94  | 20.95  | 20.80  | 22                     | 1           |
| 10              | 16QAM  | 1  | 0  | 20.71  | 20.56  | 20.53  | 20.66  |                        |             |
| 10              | 16QAM  | 1  | 25 | 20.70  | 20.58  | 20.63  | 20.62  |                        |             |
| 10              | 16QAM  | 1  | 49 | 20.65  | 20.64  | 20.63  | 20.61  | 21                     | 2           |
| 10              | 16QAM  | 25 | 0  | 19.73  | 19.73  | 19.73  | 19.81  |                        |             |
| 10              | 16QAM  | 25 | 12 | 19.89  | 19.81  | 19.82  | 19.89  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.89  | 19.94  | 19.80  | 19.91  | 21                     | 2           |
| 10              | 16QAM  | 50 | 0  | 19.72  | 19.91  | 19.89  | 19.84  |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.67  | 19.53  | 19.67  | 19.60  |                        |             |
| 10              | 64QAM  | 1  | 25 | 19.59  | 19.56  | 19.51  | 19.62  | 20                     | 3           |
| 10              | 64QAM  | 1  | 49 | 19.67  | 19.53  | 19.55  | 19.65  |                        |             |
| 10              | 64QAM  | 25 | 0  | 18.99  | 18.86  | 18.88  | 18.93  |                        |             |
| 10              | 64QAM  | 25 | 12 | 18.69  | 18.66  | 18.63  | 18.73  | 18                     | 5           |
| 10              | 64QAM  | 25 | 25 | 18.88  | 18.80  | 18.89  | 18.83  |                        |             |
| 10              | 64QAM  | 50 | 0  | 18.84  | 18.68  | 18.71  | 18.75  |                        |             |
| 10              | 256QAM | 1  | 0  | 16.66  | 16.61  | 16.64  | 16.66  | 18                     | 5           |
| 10              | 256QAM | 1  | 25 | 16.77  | 16.67  | 16.58  | 16.50  |                        |             |
| 10              | 256QAM | 1  | 49 | 16.52  | 16.57  | 16.58  | 16.54  |                        |             |
| 10              | 256QAM | 25 | 0  | 16.91  | 16.88  | 17.02  | 17.03  | 18                     | 5           |
| 10              | 256QAM | 25 | 12 | 16.95  | 16.92  | 16.90  | 16.89  |                        |             |
| 10              | 256QAM | 25 | 25 | 16.70  | 16.76  | 16.66  | 16.62  |                        |             |
| 10              | 256QAM | 50 | 0  | 16.91  | 16.83  | 16.95  | 16.87  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  |                        |             |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |             |



|   |        |    |    |       |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|-------|----|---|
| 5 | QPSK   | 1  | 0  | 21.68 | 21.77 | 21.79 | 21.78 | 23 | 0 |
| 5 | QPSK   | 1  | 12 | 21.73 | 21.66 | 21.68 | 21.72 |    |   |
| 5 | QPSK   | 1  | 24 | 21.65 | 21.72 | 21.74 | 21.57 |    |   |
| 5 | QPSK   | 12 | 0  | 20.86 | 20.82 | 20.78 | 20.94 | 22 | 1 |
| 5 | QPSK   | 12 | 7  | 20.89 | 20.88 | 20.98 | 20.90 |    |   |
| 5 | QPSK   | 12 | 13 | 20.77 | 20.81 | 20.84 | 20.81 |    |   |
| 5 | QPSK   | 25 | 0  | 20.84 | 20.81 | 20.89 | 20.90 |    |   |
| 5 | 16QAM  | 1  | 0  | 20.72 | 20.70 | 20.54 | 20.75 | 22 | 1 |
| 5 | 16QAM  | 1  | 12 | 20.60 | 20.63 | 20.56 | 20.52 |    |   |
| 5 | 16QAM  | 1  | 24 | 20.53 | 20.64 | 20.67 | 20.55 |    |   |
| 5 | 16QAM  | 12 | 0  | 19.69 | 19.64 | 19.67 | 19.72 | 21 | 2 |
| 5 | 16QAM  | 12 | 7  | 19.86 | 19.85 | 19.83 | 19.82 |    |   |
| 5 | 16QAM  | 12 | 13 | 19.97 | 19.83 | 19.91 | 19.79 |    |   |
| 5 | 16QAM  | 25 | 0  | 19.76 | 19.79 | 19.91 | 19.93 |    |   |
| 5 | 64QAM  | 1  | 0  | 19.59 | 19.64 | 19.65 | 19.64 | 21 | 2 |
| 5 | 64QAM  | 1  | 12 | 19.50 | 19.53 | 19.59 | 19.52 |    |   |
| 5 | 64QAM  | 1  | 24 | 19.56 | 19.51 | 19.56 | 19.76 |    |   |
| 5 | 64QAM  | 12 | 0  | 18.93 | 18.87 | 18.90 | 18.85 | 20 | 3 |
| 5 | 64QAM  | 12 | 7  | 18.65 | 18.71 | 18.63 | 18.75 |    |   |
| 5 | 64QAM  | 12 | 13 | 18.89 | 18.81 | 18.83 | 18.80 |    |   |
| 5 | 64QAM  | 25 | 0  | 18.77 | 18.75 | 18.71 | 18.75 |    |   |
| 5 | 256QAM | 1  | 0  | 16.67 | 16.65 | 16.73 | 16.58 | 18 | 5 |
| 5 | 256QAM | 1  | 12 | 16.75 | 16.61 | 16.58 | 16.57 |    |   |
| 5 | 256QAM | 1  | 24 | 16.63 | 16.56 | 16.65 | 16.55 |    |   |
| 5 | 256QAM | 12 | 0  | 16.96 | 16.99 | 17.00 | 17.02 | 18 | 5 |
| 5 | 256QAM | 12 | 7  | 16.94 | 16.89 | 16.97 | 16.89 |    |   |
| 5 | 256QAM | 12 | 13 | 16.69 | 16.66 | 16.78 | 16.63 |    |   |
| 5 | 256QAM | 25 | 0  | 16.83 | 16.76 | 16.81 | 16.76 |    |   |

### Reduced Power Mode for DSI 0

| Band 38 Ant3 DSI0 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz)   |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20                | QPSK       | 1       | 0         | 21.97                 | 22.23                    | 22.12                  | 22.8                | 0        |
| 20                | QPSK       | 1       | 49        | 21.97                 | 22.14                    | 22.13                  |                     |          |
| 20                | QPSK       | 1       | 99        | 22.04                 | 22.10                    | 22.15                  |                     |          |
| 20                | QPSK       | 50      | 0         | 21.76                 | 21.80                    | 21.64                  | 22.8                | 0        |
| 20                | QPSK       | 50      | 24        | 21.56                 | 21.60                    | 21.64                  |                     |          |
| 20                | QPSK       | 50      | 50        | 21.78                 | 21.75                    | 21.70                  |                     |          |
| 20                | QPSK       | 100     | 0         | 21.68                 | 21.78                    | 21.76                  | 22.8                | 0        |
| 20                | 16QAM      | 1       | 0         | 21.66                 | 21.73                    | 21.79                  |                     |          |
| 20                | 16QAM      | 1       | 49        | 21.78                 | 21.69                    | 21.78                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 21.75                 | 21.73                    | 21.73                  | 22                  | 0.8      |
| 20                | 16QAM      | 50      | 0         | 20.76                 | 20.74                    | 20.66                  |                     |          |
| 20                | 16QAM      | 50      | 24        | 20.51                 | 20.61                    | 20.69                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 20.72                 | 20.70                    | 20.69                  | 22                  | 0.8      |
| 20                | 16QAM      | 100     | 0         | 20.71                 | 20.68                    | 20.67                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 20.30                 | 20.35                    | 20.31                  |                     |          |
| 20                | 64QAM      | 1       | 49        | 20.34                 | 20.36                    | 20.37                  | 21                  | 1.8      |
| 20                | 64QAM      | 1       | 99        | 20.23                 | 20.28                    | 20.36                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 19.71                 | 19.71                    | 19.76                  |                     |          |
| 20                | 64QAM      | 50      | 24        | 19.68                 | 19.77                    | 19.72                  | 19                  | 3.8      |
| 20                | 64QAM      | 50      | 50        | 19.64                 | 19.69                    | 19.78                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 19.86                 | 19.79                    | 19.70                  |                     |          |
| 20                | 256QAM     | 1       | 0         | 17.81                 | 17.90                    | 17.82                  | 19                  | 3.8      |
| 20                | 256QAM     | 1       | 49        | 17.63                 | 17.71                    | 17.78                  |                     |          |
| 20                | 256QAM     | 1       | 99        | 17.94                 | 17.85                    | 17.80                  |                     |          |
| 20                | 256QAM     | 50      | 0         | 17.67                 | 17.70                    | 17.76                  | 19                  | 3.8      |
| 20                | 256QAM     | 50      | 24        | 17.81                 | 17.77                    | 17.73                  |                     |          |
| 20                | 256QAM     | 50      | 50        | 17.81                 | 17.73                    | 17.68                  |                     |          |
| 20                | 256QAM     | 100     | 0         | 17.84                 | 17.84                    | 17.83                  | 22.8                | 0        |
| 15                | QPSK       | 1       | 0         | 21.86                 | 22.10                    | 22.04                  |                     |          |
| 15                | QPSK       | 1       | 37        | 21.93                 | 22.09                    | 22.05                  |                     |          |
| 15                | QPSK       | 1       | 74        | 21.93                 | 21.97                    | 22.10                  | 22.8                | 0        |
| 15                | QPSK       | 36      | 0         | 21.52                 | 21.55                    | 21.52                  |                     |          |
| 15                | QPSK       | 36      | 20        | 21.48                 | 21.55                    | 21.54                  |                     |          |
| 15                | QPSK       | 36      | 39        | 21.62                 | 21.67                    | 21.72                  | 22.8                | 0        |
| 15                | QPSK       | 75      | 0         | 21.65                 | 21.56                    | 21.73                  |                     |          |
| 15                | 16QAM      | 1       | 0         | 21.56                 | 21.61                    | 21.66                  |                     |          |
| 15                | 16QAM      | 1       | 37        | 21.62                 | 21.57                    | 21.71                  | 22.8                | 0        |
| 15                | 16QAM      | 1       | 74        | 21.58                 | 21.59                    | 21.56                  |                     |          |

|                 |        |    |    |       |       |       |                        |             |
|-----------------|--------|----|----|-------|-------|-------|------------------------|-------------|
| 15              | 16QAM  | 36 | 0  | 20.67 | 20.65 | 20.63 | 22                     | 0.8         |
| 15              | 16QAM  | 36 | 20 | 20.35 | 20.58 | 20.56 |                        |             |
| 15              | 16QAM  | 36 | 39 | 20.56 | 20.67 | 20.61 |                        |             |
| 15              | 16QAM  | 75 | 0  | 20.65 | 20.65 | 20.54 |                        |             |
| 15              | 64QAM  | 1  | 0  | 20.22 | 20.19 | 20.14 | 22                     | 0.8         |
| 15              | 64QAM  | 1  | 37 | 20.28 | 20.23 | 20.27 |                        |             |
| 15              | 64QAM  | 1  | 74 | 20.14 | 20.24 | 20.33 |                        |             |
| 15              | 64QAM  | 36 | 0  | 19.61 | 19.53 | 19.66 | 21                     | 1.8         |
| 15              | 64QAM  | 36 | 20 | 19.56 | 19.71 | 19.64 |                        |             |
| 15              | 64QAM  | 36 | 39 | 19.49 | 19.51 | 19.60 |                        |             |
| 15              | 64QAM  | 75 | 0  | 19.79 | 19.72 | 19.64 |                        |             |
| 15              | 256QAM | 1  | 0  | 17.79 | 17.82 | 17.79 | 19                     | 3.8         |
| 15              | 256QAM | 1  | 37 | 17.48 | 17.55 | 17.73 |                        |             |
| 15              | 256QAM | 1  | 74 | 17.79 | 17.82 | 17.63 |                        |             |
| 15              | 256QAM | 36 | 0  | 17.60 | 17.66 | 17.59 | 19                     | 3.8         |
| 15              | 256QAM | 36 | 20 | 17.63 | 17.71 | 17.66 |                        |             |
| 15              | 256QAM | 36 | 39 | 17.73 | 17.60 | 17.52 |                        |             |
| 15              | 256QAM | 75 | 0  | 17.81 | 17.68 | 17.73 |                        |             |
| Channel         |        |    |    | 37800 | 38000 | 38200 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575  | 2595  | 2615  |                        |             |
| 10              | QPSK   | 1  | 0  | 21.85 | 22.17 | 22.04 | 22.8                   | 0           |
| 10              | QPSK   | 1  | 25 | 21.91 | 22.02 | 21.99 |                        |             |
| 10              | QPSK   | 1  | 49 | 21.93 | 22.03 | 22.11 |                        |             |
| 10              | QPSK   | 25 | 0  | 21.48 | 21.63 | 21.54 | 22.8                   | 0           |
| 10              | QPSK   | 25 | 12 | 21.51 | 21.45 | 21.56 |                        |             |
| 10              | QPSK   | 25 | 25 | 21.75 | 21.57 | 21.65 |                        |             |
| 10              | QPSK   | 50 | 0  | 21.53 | 21.49 | 21.72 |                        |             |
| 10              | 16QAM  | 1  | 0  | 21.58 | 21.68 | 21.65 | 22.8                   | 0           |
| 10              | 16QAM  | 1  | 25 | 21.61 | 21.67 | 21.62 |                        |             |
| 10              | 16QAM  | 1  | 49 | 21.61 | 21.64 | 21.71 |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.65 | 20.67 | 20.60 | 22                     | 0.8         |
| 10              | 16QAM  | 25 | 12 | 20.45 | 20.48 | 20.52 |                        |             |
| 10              | 16QAM  | 25 | 25 | 20.58 | 20.53 | 20.58 |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.56 | 20.63 | 20.65 |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.13 | 20.22 | 20.24 | 22                     | 0.8         |
| 10              | 64QAM  | 1  | 25 | 20.19 | 20.21 | 20.31 |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.19 | 20.16 | 20.28 |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.57 | 19.56 | 19.73 | 21                     | 1.8         |
| 10              | 64QAM  | 25 | 12 | 19.60 | 19.70 | 19.58 |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.50 | 19.57 | 19.63 |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.72 | 19.75 | 19.65 |                        |             |
| 10              | 256QAM | 1  | 0  | 17.67 | 17.77 | 17.70 | 19                     | 3.8         |
| 10              | 256QAM | 1  | 25 | 17.50 | 17.55 | 17.62 |                        |             |
| 10              | 256QAM | 1  | 49 | 17.83 | 17.75 | 17.70 |                        |             |
| 10              | 256QAM | 25 | 0  | 17.59 | 17.65 | 17.69 | 19                     | 3.8         |
| 10              | 256QAM | 25 | 12 | 17.73 | 17.67 | 17.63 |                        |             |
| 10              | 256QAM | 25 | 25 | 17.75 | 17.65 | 17.57 |                        |             |
| 10              | 256QAM | 50 | 0  | 17.66 | 17.80 | 17.66 |                        |             |
| Channel         |        |    |    | 37775 | 38000 | 38225 | Tune-up limit          | MPR         |

| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 | (dBm) | (dB) |
|-----------------|--------|----|----|--------|-------|--------|-------|------|
| 5               | QPSK   | 1  | 0  | 21.87  | 22.18 | 22.00  | 22.8  | 0    |
| 5               | QPSK   | 1  | 12 | 21.84  | 22.10 | 22.06  |       |      |
| 5               | QPSK   | 1  | 24 | 21.94  | 22.01 | 22.10  |       |      |
| 5               | QPSK   | 12 | 0  | 21.52  | 21.62 | 21.48  | 22.8  | 0    |
| 5               | QPSK   | 12 | 7  | 21.53  | 21.56 | 21.49  |       |      |
| 5               | QPSK   | 12 | 13 | 21.69  | 21.57 | 21.74  |       |      |
| 5               | QPSK   | 25 | 0  | 21.56  | 21.56 | 21.74  |       |      |
| 5               | 16QAM  | 1  | 0  | 21.49  | 21.70 | 21.77  | 22.8  | 0    |
| 5               | 16QAM  | 1  | 12 | 21.76  | 21.61 | 21.64  |       |      |
| 5               | 16QAM  | 1  | 24 | 21.59  | 21.71 | 21.58  |       |      |
| 5               | 16QAM  | 12 | 0  | 20.63  | 20.61 | 20.64  | 22    | 0.8  |
| 5               | 16QAM  | 12 | 7  | 20.44  | 20.52 | 20.53  |       |      |
| 5               | 16QAM  | 12 | 13 | 20.64  | 20.62 | 20.61  |       |      |
| 5               | 16QAM  | 25 | 0  | 20.59  | 20.65 | 20.52  |       |      |
| 5               | 64QAM  | 1  | 0  | 20.22  | 20.20 | 20.17  | 22    | 0.8  |
| 5               | 64QAM  | 1  | 12 | 20.26  | 20.31 | 20.28  |       |      |
| 5               | 64QAM  | 1  | 24 | 20.14  | 20.20 | 20.20  |       |      |
| 5               | 64QAM  | 12 | 0  | 19.62  | 19.58 | 19.71  | 21    | 1.8  |
| 5               | 64QAM  | 12 | 7  | 19.55  | 19.63 | 19.64  |       |      |
| 5               | 64QAM  | 12 | 13 | 19.51  | 19.53 | 19.69  |       |      |
| 5               | 64QAM  | 25 | 0  | 19.69  | 19.74 | 19.58  |       |      |
| 5               | 256QAM | 1  | 0  | 17.70  | 17.76 | 17.76  | 19    | 3.8  |
| 5               | 256QAM | 1  | 12 | 17.50  | 17.54 | 17.74  |       |      |
| 5               | 256QAM | 1  | 24 | 17.85  | 17.82 | 17.70  |       |      |
| 5               | 256QAM | 12 | 0  | 17.55  | 17.54 | 17.65  | 19    | 3.8  |
| 5               | 256QAM | 12 | 7  | 17.69  | 17.67 | 17.61  |       |      |
| 5               | 256QAM | 12 | 13 | 17.79  | 17.62 | 17.58  |       |      |
| 5               | 256QAM | 25 | 0  | 17.77  | 17.68 | 17.73  |       |      |

| Band 41 Ant3 DSI0 |            |         |           |                              |                       |                              |                          |                               |                        |                     |          |
|-------------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 39790                        | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | 23                  | 0        |
| Frequency (MHz)   |            |         |           | 2510                         | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                | QPSK       | 1       | 0         | 22.11                        | 22.04                 | 22.07                        | 22.25                    | 22.17                         | 22.16                  |                     |          |
| 20                | QPSK       | 1       | 49        | 22.17                        | 22.13                 | 22.09                        | 22.21                    | 22.15                         | 22.08                  | 22.8                | 0        |
| 20                | QPSK       | 1       | 99        | 22.19                        | 22.13                 | 22.11                        | 22.19                    | 22.23                         | 22.18                  |                     |          |
| 20                | QPSK       | 50      | 0         | 21.80                        | 21.81                 | 21.76                        | 21.83                    | 21.74                         | 21.71                  |                     |          |
| 20                | QPSK       | 50      | 24        | 21.55                        | 21.60                 | 21.65                        | 21.57                    | 21.50                         | 21.65                  |                     |          |
| 20                | QPSK       | 50      | 50        | 21.68                        | 21.73                 | 21.66                        | 21.74                    | 21.79                         | 21.82                  | 22.8                | 0        |
| 20                | QPSK       | 100     | 0         | 21.70                        | 21.71                 | 21.65                        | 21.73                    | 21.60                         | 21.63                  |                     |          |
| 20                | 16QAM      | 1       | 0         | 21.56                        | 21.57                 | 21.56                        | 21.60                    | 21.60                         | 21.64                  |                     |          |
| 20                | 16QAM      | 1       | 49        | 21.65                        | 21.68                 | 21.67                        | 21.63                    | 21.65                         | 21.61                  | 22                  | 0.8      |
| 20                | 16QAM      | 1       | 99        | 21.56                        | 21.43                 | 21.49                        | 21.48                    | 21.42                         | 21.42                  |                     |          |
| 20                | 16QAM      | 50      | 0         | 20.76                        | 20.70                 | 20.77                        | 20.76                    | 20.70                         | 20.72                  |                     |          |
| 20                | 16QAM      | 50      | 24        | 20.68                        | 20.73                 | 20.72                        | 20.69                    | 20.76                         | 20.67                  |                     |          |

|                 |        |     |    |        |        |        |       |        |        |                           |             |
|-----------------|--------|-----|----|--------|--------|--------|-------|--------|--------|---------------------------|-------------|
| 20              | 16QAM  | 50  | 50 | 20.66  | 20.61  | 20.59  | 20.60 | 20.62  | 20.65  |                           |             |
| 20              | 16QAM  | 100 | 0  | 20.71  | 20.77  | 20.80  | 20.74 | 20.77  | 20.78  |                           |             |
| 20              | 64QAM  | 1   | 0  | 20.22  | 20.29  | 20.29  | 20.27 | 20.23  | 20.27  | 22                        | 0.8         |
| 20              | 64QAM  | 1   | 49 | 20.31  | 20.27  | 20.27  | 20.32 | 20.37  | 20.38  |                           |             |
| 20              | 64QAM  | 1   | 99 | 20.43  | 20.50  | 20.38  | 20.43 | 20.42  | 20.36  | 21                        | 1.8         |
| 20              | 64QAM  | 50  | 0  | 19.76  | 19.71  | 19.69  | 19.68 | 19.76  | 19.69  |                           |             |
| 20              | 64QAM  | 50  | 24 | 19.51  | 19.55  | 19.56  | 19.57 | 19.63  | 19.60  |                           |             |
| 20              | 64QAM  | 50  | 50 | 19.60  | 19.70  | 19.71  | 19.65 | 19.60  | 19.58  |                           |             |
| 20              | 64QAM  | 100 | 0  | 19.66  | 19.75  | 19.62  | 19.68 | 19.68  | 19.74  | 19                        | 3.8         |
| 20              | 256QAM | 1   | 0  | 17.74  | 17.81  | 17.81  | 17.78 | 17.86  | 17.79  |                           |             |
| 20              | 256QAM | 1   | 49 | 17.71  | 17.75  | 17.68  | 17.74 | 17.81  | 17.79  |                           |             |
| 20              | 256QAM | 1   | 99 | 17.57  | 17.60  | 17.54  | 17.58 | 17.61  | 17.57  | 19                        | 3.8         |
| 20              | 256QAM | 50  | 0  | 17.72  | 17.61  | 17.66  | 17.67 | 17.64  | 17.62  |                           |             |
| 20              | 256QAM | 50  | 24 | 17.78  | 17.86  | 17.87  | 17.81 | 17.86  | 17.80  |                           |             |
| 20              | 256QAM | 50  | 50 | 17.60  | 17.60  | 17.73  | 17.66 | 17.73  | 17.64  |                           |             |
| 20              | 256QAM | 100 | 0  | 17.87  | 17.83  | 17.93  | 17.89 | 17.83  | 17.85  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |     |    | 39765  | 39725  | 40173  | 40620 | 41068  | 41515  |                           |             |
| Frequency (MHz) |        |     |    | 2507.5 | 2503.5 | 2548.3 | 2593  | 2637.8 | 2682.5 | 23                        | 0           |
| 15              | QPSK   | 1   | 0  | 22.01  | 21.96  | 21.98  | 22.20 | 22.04  | 22.11  |                           |             |
| 15              | QPSK   | 1   | 37 | 22.09  | 22.03  | 22.04  | 22.14 | 22.10  | 22.06  | 22.8                      | 0           |
| 15              | QPSK   | 1   | 74 | 22.11  | 22.07  | 22.03  | 22.16 | 22.17  | 22.07  |                           |             |
| 15              | QPSK   | 36  | 0  | 21.49  | 21.60  | 21.49  | 21.41 | 21.62  | 21.44  |                           |             |
| 15              | QPSK   | 36  | 20 | 21.44  | 21.57  | 21.53  | 21.40 | 21.46  | 21.54  |                           |             |
| 15              | QPSK   | 36  | 39 | 21.60  | 21.61  | 21.48  | 21.64 | 21.71  | 21.67  | 22.8                      | 0           |
| 15              | QPSK   | 75  | 0  | 21.61  | 21.69  | 21.63  | 21.59 | 21.48  | 21.55  |                           |             |
| 15              | 16QAM  | 1   | 0  | 21.49  | 21.43  | 21.47  | 21.53 | 21.46  | 21.54  |                           |             |
| 15              | 16QAM  | 1   | 37 | 21.54  | 21.62  | 21.56  | 21.56 | 21.58  | 21.54  | 22.8                      | 0           |
| 15              | 16QAM  | 1   | 74 | 21.38  | 21.39  | 21.44  | 21.45 | 21.28  | 21.37  |                           |             |
| 15              | 16QAM  | 36  | 0  | 20.69  | 20.63  | 20.69  | 20.61 | 20.63  | 20.66  |                           |             |
| 15              | 16QAM  | 36  | 20 | 20.54  | 20.62  | 20.70  | 20.55 | 20.60  | 20.56  | 22                        | 0.8         |
| 15              | 16QAM  | 36  | 39 | 20.59  | 20.52  | 20.54  | 20.55 | 20.53  | 20.61  |                           |             |
| 15              | 16QAM  | 75  | 0  | 20.57  | 20.61  | 20.65  | 20.68 | 20.71  | 20.68  |                           |             |
| 15              | 64QAM  | 1   | 0  | 20.06  | 20.12  | 20.26  | 20.23 | 20.18  | 20.24  | 22                        | 0.8         |
| 15              | 64QAM  | 1   | 37 | 20.23  | 20.10  | 20.10  | 20.23 | 20.21  | 20.35  |                           |             |
| 15              | 64QAM  | 1   | 74 | 20.32  | 20.39  | 20.34  | 20.29 | 20.25  | 20.33  |                           |             |
| 15              | 64QAM  | 36  | 0  | 19.67  | 19.59  | 19.58  | 19.63 | 19.68  | 19.59  | 21                        | 1.8         |
| 15              | 64QAM  | 36  | 20 | 19.35  | 19.46  | 19.53  | 19.47 | 19.50  | 19.55  |                           |             |
| 15              | 64QAM  | 36  | 39 | 19.47  | 19.64  | 19.55  | 19.47 | 19.54  | 19.42  |                           |             |
| 15              | 64QAM  | 75  | 0  | 19.62  | 19.63  | 19.53  | 19.60 | 19.57  | 19.67  | 19                        | 3.8         |
| 15              | 256QAM | 1   | 0  | 17.68  | 17.66  | 17.74  | 17.74 | 17.82  | 17.68  |                           |             |
| 15              | 256QAM | 1   | 37 | 17.61  | 17.67  | 17.62  | 17.70 | 17.66  | 17.76  |                           |             |
| 15              | 256QAM | 1   | 74 | 17.43  | 17.49  | 17.50  | 17.49 | 17.57  | 17.54  | 19                        | 3.8         |
| 15              | 256QAM | 36  | 0  | 17.58  | 17.48  | 17.64  | 17.61 | 17.57  | 17.49  |                           |             |
| 15              | 256QAM | 36  | 20 | 17.71  | 17.81  | 17.73  | 17.70 | 17.83  | 17.75  |                           |             |
| 15              | 256QAM | 36  | 39 | 17.55  | 17.45  | 17.66  | 17.63 | 17.57  | 17.56  |                           |             |
| 15              | 256QAM | 75  | 0  | 17.76  | 17.74  | 17.84  | 17.85 | 17.74  | 17.74  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |     |    | 39740  | 39700  | 40160  | 40620 | 41080  | 41540  |                           |             |
| Frequency (MHz) |        |     |    | 2505   | 2501   | 2547   | 2593  | 2639   | 2685   | 23                        | 0           |
| 10              | QPSK   | 1   | 0  | 22.07  | 21.99  | 21.94  | 22.16 | 22.10  | 22.07  |                           |             |



|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 10              | QPSK   | 1  | 25 | 22.11  | 22.05  | 22.07  | 22.16 | 22.05   | 22.03  |                           |             |
| 10              | QPSK   | 1  | 49 | 22.15  | 22.01  | 22.06  | 22.09 | 22.16   | 22.09  |                           |             |
| 10              | QPSK   | 25 | 0  | 21.49  | 21.47  | 21.53  | 21.55 | 21.58   | 21.42  | 22.8                      | 0           |
| 10              | QPSK   | 25 | 12 | 21.51  | 21.44  | 21.58  | 21.48 | 21.39   | 21.49  |                           |             |
| 10              | QPSK   | 25 | 25 | 21.53  | 21.69  | 21.58  | 21.62 | 21.70   | 21.68  |                           |             |
| 10              | QPSK   | 50 | 0  | 21.58  | 21.55  | 21.49  | 21.52 | 21.53   | 21.55  |                           |             |
| 10              | 16QAM  | 1  | 0  | 21.41  | 21.54  | 21.52  | 21.52 | 21.45   | 21.49  | 22.8                      | 0           |
| 10              | 16QAM  | 1  | 25 | 21.56  | 21.51  | 21.54  | 21.54 | 21.62   | 21.53  |                           |             |
| 10              | 16QAM  | 1  | 49 | 21.51  | 21.30  | 21.40  | 21.41 | 21.25   | 21.36  |                           |             |
| 10              | 16QAM  | 25 | 0  | 20.73  | 20.62  | 20.66  | 20.66 | 20.53   | 20.60  | 22                        | 0.8         |
| 10              | 16QAM  | 25 | 12 | 20.56  | 20.62  | 20.65  | 20.65 | 20.65   | 20.55  |                           |             |
| 10              | 16QAM  | 25 | 25 | 20.53  | 20.47  | 20.50  | 20.57 | 20.51   | 20.61  |                           |             |
| 10              | 16QAM  | 50 | 0  | 20.63  | 20.73  | 20.67  | 20.64 | 20.61   | 20.74  |                           |             |
| 10              | 64QAM  | 1  | 0  | 20.09  | 20.18  | 20.13  | 20.19 | 20.21   | 20.19  | 22                        | 0.8         |
| 10              | 64QAM  | 1  | 25 | 20.28  | 20.17  | 20.10  | 20.23 | 20.31   | 20.36  |                           |             |
| 10              | 64QAM  | 1  | 49 | 20.37  | 20.37  | 20.33  | 20.35 | 20.27   | 20.24  |                           |             |
| 10              | 64QAM  | 25 | 0  | 19.62  | 19.58  | 19.53  | 19.51 | 19.63   | 19.61  | 21                        | 1.8         |
| 10              | 64QAM  | 25 | 12 | 19.34  | 19.53  | 19.52  | 19.43 | 19.59   | 19.52  |                           |             |
| 10              | 64QAM  | 25 | 25 | 19.44  | 19.53  | 19.61  | 19.49 | 19.56   | 19.46  |                           |             |
| 10              | 64QAM  | 50 | 0  | 19.62  | 19.64  | 19.49  | 19.53 | 19.54   | 19.68  |                           |             |
| 10              | 256QAM | 1  | 0  | 17.62  | 17.74  | 17.69  | 17.63 | 17.80   | 17.72  | 19                        | 3.8         |
| 10              | 256QAM | 1  | 25 | 17.54  | 17.68  | 17.59  | 17.70 | 17.75   | 17.65  |                           |             |
| 10              | 256QAM | 1  | 49 | 17.51  | 17.57  | 17.49  | 17.44 | 17.45   | 17.46  |                           |             |
| 10              | 256QAM | 25 | 0  | 17.63  | 17.58  | 17.53  | 17.58 | 17.59   | 17.50  | 19                        | 3.8         |
| 10              | 256QAM | 25 | 12 | 17.73  | 17.81  | 17.74  | 17.75 | 17.81   | 17.76  |                           |             |
| 10              | 256QAM | 25 | 25 | 17.54  | 17.53  | 17.57  | 17.58 | 17.70   | 17.47  |                           |             |
| 10              | 256QAM | 50 | 0  | 17.74  | 17.78  | 17.85  | 17.85 | 17.67   | 17.71  |                           |             |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 22.08  | 21.95  | 21.95  | 22.15 | 22.06   | 22.11  | 23                        | 0           |
| 5               | QPSK   | 1  | 12 | 22.13  | 22.07  | 22.03  | 22.11 | 22.07   | 22.01  |                           |             |
| 5               | QPSK   | 1  | 24 | 22.13  | 22.04  | 22.00  | 22.16 | 22.11   | 22.15  |                           |             |
| 5               | QPSK   | 12 | 0  | 21.61  | 21.51  | 21.39  | 21.43 | 21.55   | 21.34  | 22.8                      | 0           |
| 5               | QPSK   | 12 | 7  | 21.49  | 21.52  | 21.62  | 21.51 | 21.45   | 21.54  |                           |             |
| 5               | QPSK   | 12 | 13 | 21.56  | 21.61  | 21.56  | 21.62 | 21.67   | 21.80  |                           |             |
| 5               | QPSK   | 25 | 0  | 21.53  | 21.61  | 21.62  | 21.60 | 21.51   | 21.59  |                           |             |
| 5               | 16QAM  | 1  | 0  | 21.38  | 21.45  | 21.48  | 21.57 | 21.51   | 21.50  | 22.8                      | 0           |
| 5               | 16QAM  | 1  | 12 | 21.62  | 21.53  | 21.56  | 21.52 | 21.59   | 21.54  |                           |             |
| 5               | 16QAM  | 1  | 24 | 21.42  | 21.25  | 21.41  | 21.37 | 21.30   | 21.39  |                           |             |
| 5               | 16QAM  | 12 | 0  | 20.61  | 20.64  | 20.61  | 20.67 | 20.56   | 20.64  | 22                        | 0.8         |
| 5               | 16QAM  | 12 | 7  | 20.61  | 20.68  | 20.66  | 20.65 | 20.64   | 20.57  |                           |             |
| 5               | 16QAM  | 12 | 13 | 20.56  | 20.47  | 20.47  | 20.46 | 20.44   | 20.50  |                           |             |
| 5               | 16QAM  | 25 | 0  | 20.57  | 20.71  | 20.75  | 20.59 | 20.61   | 20.68  |                           |             |
| 5               | 64QAM  | 1  | 0  | 20.05  | 20.14  | 20.16  | 20.10 | 20.13   | 20.13  | 22                        | 0.8         |
| 5               | 64QAM  | 1  | 12 | 20.19  | 20.13  | 20.22  | 20.19 | 20.31   | 20.23  |                           |             |
| 5               | 64QAM  | 1  | 24 | 20.32  | 20.35  | 20.22  | 20.31 | 20.27   | 20.26  |                           |             |
| 5               | 64QAM  | 12 | 0  | 19.64  | 19.66  | 19.54  | 19.58 | 19.64   | 19.54  | 21                        | 1.8         |
| 5               | 64QAM  | 12 | 7  | 19.43  | 19.47  | 19.50  | 19.44 | 19.59   | 19.49  |                           |             |
| 5               | 64QAM  | 12 | 13 | 19.55  | 19.61  | 19.54  | 19.63 | 19.55   | 19.47  |                           |             |

|   |        |    |    |       |       |       |       |       |       |    |     |
|---|--------|----|----|-------|-------|-------|-------|-------|-------|----|-----|
| 5 | 64QAM  | 25 | 0  | 19.61 | 19.61 | 19.51 | 19.64 | 19.60 | 19.63 |    |     |
| 5 | 256QAM | 1  | 0  | 17.66 | 17.69 | 17.67 | 17.75 | 17.76 | 17.67 | 19 | 3.8 |
| 5 | 256QAM | 1  | 12 | 17.57 | 17.68 | 17.58 | 17.69 | 17.67 | 17.66 |    |     |
| 5 | 256QAM | 1  | 24 | 17.47 | 17.54 | 17.43 | 17.49 | 17.50 | 17.53 |    |     |
| 5 | 256QAM | 12 | 0  | 17.64 | 17.47 | 17.53 | 17.50 | 17.60 | 17.53 | 19 | 3.8 |
| 5 | 256QAM | 12 | 7  | 17.75 | 17.83 | 17.77 | 17.66 | 17.72 | 17.62 |    |     |
| 5 | 256QAM | 12 | 13 | 17.46 | 17.50 | 17.67 | 17.52 | 17.61 | 17.54 |    |     |
| 5 | 256QAM | 25 | 0  | 17.77 | 17.75 | 17.77 | 17.82 | 17.65 | 17.76 |    |     |

| Band 41 HPUE Ant3 DSI0 |            |         |           |                              |                       |                              |                          |                               |                        |                     |          |
|------------------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]               | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                |            |         |           | 39790                        | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz)        |            |         |           | 2510                         | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                     | QPSK       | 1       | 0         | 23.84                        | 23.64                 | 23.84                        | 23.88                    | 23.80                         | 23.85                  | 24.4                | 0        |
| 20                     | QPSK       | 1       | 49        | 23.82                        | 23.80                 | 23.82                        | 23.83                    | 23.85                         | 23.84                  |                     |          |
| 20                     | QPSK       | 1       | 99        | 23.72                        | 23.75                 | 23.77                        | 23.80                    | 23.86                         | 23.82                  |                     |          |
| 20                     | QPSK       | 50      | 0         | 23.81                        | 23.56                 | 23.78                        | 23.86                    | 23.77                         | 23.78                  | 24.4                | 0        |
| 20                     | QPSK       | 50      | 24        | 23.72                        | 23.70                 | 23.69                        | 23.78                    | 23.82                         | 23.77                  |                     |          |
| 20                     | QPSK       | 50      | 50        | 23.59                        | 23.66                 | 23.68                        | 23.70                    | 23.79                         | 23.81                  |                     |          |
| 20                     | QPSK       | 100     | 0         | 23.76                        | 23.55                 | 23.70                        | 23.80                    | 23.67                         | 23.79                  |                     |          |
| 20                     | 16QAM      | 1       | 0         | 23.79                        | 23.52                 | 23.72                        | 23.76                    | 23.68                         | 23.76                  | 24.4                | 0        |
| 20                     | 16QAM      | 1       | 49        | 23.78                        | 23.68                 | 23.76                        | 23.79                    | 23.81                         | 23.71                  |                     |          |
| 20                     | 16QAM      | 1       | 99        | 23.59                        | 23.66                 | 23.68                        | 23.74                    | 23.73                         | 23.83                  |                     |          |
| 20                     | 16QAM      | 50      | 0         | 23.72                        | 23.58                 | 23.71                        | 23.77                    | 23.75                         | 23.81                  | 24.4                | 0        |
| 20                     | 16QAM      | 50      | 24        | 23.74                        | 23.51                 | 23.72                        | 23.82                    | 23.68                         | 23.76                  |                     |          |
| 20                     | 16QAM      | 50      | 50        | 23.80                        | 23.73                 | 23.74                        | 23.78                    | 23.71                         | 23.82                  |                     |          |
| 20                     | 16QAM      | 100     | 0         | 23.66                        | 23.68                 | 23.71                        | 23.77                    | 23.79                         | 23.83                  |                     |          |
| 20                     | 64QAM      | 1       | 0         | 23.73                        | 23.61                 | 23.81                        | 23.78                    | 23.72                         | 23.79                  | 24.4                | 0        |
| 20                     | 64QAM      | 1       | 49        | 23.78                        | 23.68                 | 23.75                        | 23.70                    | 23.74                         | 23.78                  |                     |          |
| 20                     | 64QAM      | 1       | 99        | 23.67                        | 23.70                 | 23.64                        | 23.67                    | 23.75                         | 23.77                  |                     |          |
| 20                     | 64QAM      | 50      | 0         | 23.02                        | 23.05                 | 22.97                        | 23.01                    | 23.07                         | 23.01                  | 24                  | 0.4      |
| 20                     | 64QAM      | 50      | 24        | 22.89                        | 22.96                 | 22.93                        | 22.94                    | 22.95                         | 22.89                  |                     |          |
| 20                     | 64QAM      | 50      | 50        | 23.06                        | 23.19                 | 23.18                        | 23.13                    | 23.11                         | 23.18                  |                     |          |
| 20                     | 64QAM      | 100     | 0         | 22.99                        | 22.89                 | 23.00                        | 22.93                    | 22.90                         | 22.93                  |                     |          |
| 20                     | 256QAM     | 1       | 0         | 21.10                        | 21.23                 | 21.14                        | 21.15                    | 21.15                         | 21.09                  | 22                  | 2.4      |
| 20                     | 256QAM     | 1       | 49        | 21.30                        | 21.20                 | 21.28                        | 21.24                    | 21.31                         | 21.30                  |                     |          |
| 20                     | 256QAM     | 1       | 99        | 21.18                        | 21.16                 | 21.12                        | 21.16                    | 21.20                         | 21.23                  |                     |          |
| 20                     | 256QAM     | 50      | 0         | 20.90                        | 21.02                 | 20.95                        | 20.96                    | 20.94                         | 20.95                  | 22                  | 2.4      |
| 20                     | 256QAM     | 50      | 24        | 21.11                        | 21.02                 | 21.01                        | 21.07                    | 21.12                         | 21.03                  |                     |          |
| 20                     | 256QAM     | 50      | 50        | 20.91                        | 20.92                 | 21.00                        | 20.97                    | 20.94                         | 21.02                  |                     |          |
| 20                     | 256QAM     | 100     | 0         | 21.14                        | 21.16                 | 21.19                        | 21.13                    | 21.07                         | 21.08                  |                     |          |
| Channel                |            |         |           | 39765                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)        |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15                     | QPSK       | 1       | 0         | 23.76                        | 23.52                 | 23.72                        | 23.84                    | 23.73                         | 23.75                  |                     |          |
| 15                     | QPSK       | 1       | 37        | 23.75                        | 23.76                 | 23.75                        | 23.69                    | 23.82                         | 23.81                  | 24                  | 0        |
| 15                     | QPSK       | 1       | 74        | 23.65                        | 23.67                 | 23.68                        | 23.73                    | 23.74                         | 23.77                  |                     |          |

|                 |        |    |    |       |       |       |       |       |       |                           |             |
|-----------------|--------|----|----|-------|-------|-------|-------|-------|-------|---------------------------|-------------|
| 15              | QPSK   | 36 | 0  | 23.72 | 23.52 | 23.75 | 23.79 | 23.65 | 23.70 | 24.4                      | 0           |
| 15              | QPSK   | 36 | 20 | 23.67 | 23.58 | 23.57 | 23.70 | 23.78 | 23.70 |                           |             |
| 15              | QPSK   | 36 | 39 | 23.51 | 23.59 | 23.62 | 23.67 | 23.73 | 23.78 |                           |             |
| 15              | QPSK   | 75 | 0  | 23.71 | 23.50 | 23.59 | 23.72 | 23.63 | 23.73 | 24.4                      | 0           |
| 15              | 16QAM  | 1  | 0  | 23.76 | 23.38 | 23.58 | 23.63 | 23.62 | 23.72 |                           |             |
| 15              | 16QAM  | 1  | 37 | 23.71 | 23.55 | 23.65 | 23.66 | 23.69 | 23.69 |                           |             |
| 15              | 16QAM  | 1  | 74 | 23.54 | 23.56 | 23.61 | 23.66 | 23.63 | 23.73 | 24.4                      | 0           |
| 15              | 16QAM  | 36 | 0  | 23.65 | 23.48 | 23.60 | 23.66 | 23.72 | 23.79 |                           |             |
| 15              | 16QAM  | 36 | 20 | 23.69 | 23.43 | 23.70 | 23.71 | 23.60 | 23.62 |                           |             |
| 15              | 16QAM  | 36 | 39 | 23.73 | 23.66 | 23.61 | 23.70 | 23.61 | 23.70 | 24.4                      | 0           |
| 15              | 16QAM  | 75 | 0  | 23.56 | 23.62 | 23.62 | 23.72 | 23.72 | 23.75 |                           |             |
| 15              | 64QAM  | 1  | 0  | 23.70 | 23.59 | 23.75 | 23.69 | 23.70 | 23.68 |                           |             |
| 15              | 64QAM  | 1  | 37 | 23.66 | 23.58 | 23.71 | 23.56 | 23.61 | 23.75 | 24.4                      | 0           |
| 15              | 64QAM  | 1  | 74 | 23.64 | 23.61 | 23.61 | 23.61 | 23.71 | 23.67 |                           |             |
| 15              | 64QAM  | 36 | 0  | 22.98 | 22.94 | 22.81 | 22.83 | 22.92 | 22.92 |                           |             |
| 15              | 64QAM  | 36 | 20 | 22.83 | 22.87 | 22.77 | 22.81 | 22.80 | 22.72 | 24                        | 0.4         |
| 15              | 64QAM  | 36 | 39 | 22.98 | 23.03 | 23.12 | 22.99 | 22.96 | 23.03 |                           |             |
| 15              | 64QAM  | 75 | 0  | 22.90 | 22.75 | 22.94 | 22.88 | 22.80 | 22.89 |                           |             |
| 15              | 256QAM | 1  | 0  | 20.98 | 21.11 | 21.11 | 21.03 | 20.99 | 21.07 | 22                        | 2.4         |
| 15              | 256QAM | 1  | 37 | 21.19 | 21.09 | 21.23 | 21.20 | 21.20 | 21.26 |                           |             |
| 15              | 256QAM | 1  | 74 | 21.08 | 21.12 | 21.01 | 21.13 | 21.09 | 21.11 |                           |             |
| 15              | 256QAM | 36 | 0  | 20.78 | 20.91 | 20.81 | 20.82 | 20.79 | 20.91 | 22                        | 2.4         |
| 15              | 256QAM | 36 | 20 | 21.06 | 20.91 | 20.86 | 20.95 | 21.02 | 20.94 |                           |             |
| 15              | 256QAM | 36 | 39 | 20.77 | 20.75 | 20.95 | 20.88 | 20.90 | 20.97 |                           |             |
| 15              | 256QAM | 75 | 0  | 21.00 | 21.02 | 21.03 | 21.08 | 20.95 | 20.98 |                           |             |
| Channel         |        |    |    | 39740 | 39700 | 40160 | 40620 | 41080 | 41540 | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2505  | 2501  | 2547  | 2593  | 2639  | 2685  |                           |             |
| 10              | QPSK   | 1  | 0  | 23.73 | 23.55 | 23.74 | 23.82 | 23.66 | 23.78 | 24                        | 0           |
| 10              | QPSK   | 1  | 25 | 23.79 | 23.68 | 23.79 | 23.77 | 23.75 | 23.78 |                           |             |
| 10              | QPSK   | 1  | 49 | 23.61 | 23.70 | 23.64 | 23.72 | 23.84 | 23.85 |                           |             |
| 10              | QPSK   | 25 | 0  | 23.69 | 23.46 | 23.74 | 23.78 | 23.64 | 23.72 | 24.4                      | 0           |
| 10              | QPSK   | 25 | 12 | 23.66 | 23.63 | 23.58 | 23.70 | 23.77 | 23.71 |                           |             |
| 10              | QPSK   | 25 | 25 | 23.47 | 23.60 | 23.62 | 23.62 | 23.70 | 23.68 |                           |             |
| 10              | QPSK   | 50 | 0  | 23.70 | 23.47 | 23.68 | 23.77 | 23.58 | 23.65 | 24.4                      | 0           |
| 10              | 16QAM  | 1  | 0  | 23.77 | 23.45 | 23.63 | 23.70 | 23.62 | 23.70 |                           |             |
| 10              | 16QAM  | 1  | 25 | 23.73 | 23.58 | 23.64 | 23.73 | 23.77 | 23.59 |                           |             |
| 10              | 16QAM  | 1  | 49 | 23.55 | 23.60 | 23.64 | 23.62 | 23.65 | 23.71 | 24.4                      | 0           |
| 10              | 16QAM  | 25 | 0  | 23.69 | 23.51 | 23.59 | 23.73 | 23.63 | 23.70 |                           |             |
| 10              | 16QAM  | 25 | 12 | 23.61 | 23.42 | 23.60 | 23.68 | 23.65 | 23.66 |                           |             |
| 10              | 16QAM  | 25 | 25 | 23.68 | 23.66 | 23.60 | 23.65 | 23.64 | 23.72 | 24.4                      | 0           |
| 10              | 16QAM  | 50 | 0  | 23.58 | 23.62 | 23.67 | 23.68 | 23.69 | 23.76 |                           |             |
| 10              | 64QAM  | 1  | 0  | 23.67 | 23.57 | 23.77 | 23.66 | 23.68 | 23.68 |                           |             |
| 10              | 64QAM  | 1  | 25 | 23.74 | 23.58 | 23.66 | 23.67 | 23.63 | 23.67 | 24.4                      | 0           |
| 10              | 64QAM  | 1  | 49 | 23.55 | 23.66 | 23.56 | 23.57 | 23.64 | 23.66 |                           |             |
| 10              | 64QAM  | 25 | 0  | 22.87 | 22.93 | 22.92 | 22.89 | 22.90 | 22.95 |                           |             |
| 10              | 64QAM  | 25 | 12 | 22.74 | 22.87 | 22.84 | 22.80 | 22.82 | 22.77 | 24                        | 0.4         |
| 10              | 64QAM  | 25 | 25 | 22.91 | 23.10 | 23.12 | 23.08 | 22.99 | 23.07 |                           |             |
| 10              | 64QAM  | 50 | 0  | 22.84 | 22.86 | 22.92 | 22.75 | 22.82 | 22.90 |                           |             |
| 10              | 256QAM | 1  | 0  | 21.03 | 21.14 | 21.12 | 20.99 | 21.03 | 20.97 | 22                        | 2.4         |



|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 10              | 256QAM | 1  | 25 | 21.23  | 21.06  | 21.13  | 21.10 | 21.16   | 21.24  |                           |             |
| 10              | 256QAM | 1  | 49 | 21.14  | 21.10  | 20.99  | 21.00 | 21.03   | 21.20  |                           |             |
| 10              | 256QAM | 25 | 0  | 20.80  | 20.95  | 20.82  | 20.78 | 20.84   | 20.85  |                           |             |
| 10              | 256QAM | 25 | 12 | 20.96  | 20.91  | 20.92  | 21.02 | 21.07   | 20.93  | 22                        | 2.4         |
| 10              | 256QAM | 25 | 25 | 20.85  | 20.85  | 20.85  | 20.84 | 20.86   | 20.87  |                           |             |
| 10              | 256QAM | 50 | 0  | 21.09  | 21.13  | 21.07  | 21.05 | 21.03   | 20.99  |                           |             |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 23.81  | 23.55  | 23.75  | 23.77 | 23.76   | 23.75  | 24                        | 0           |
| 5               | QPSK   | 1  | 12 | 23.73  | 23.69  | 23.74  | 23.70 | 23.77   | 23.81  |                           |             |
| 5               | QPSK   | 1  | 24 | 23.62  | 23.61  | 23.68  | 23.67 | 23.76   | 23.83  |                           |             |
| 5               | QPSK   | 12 | 0  | 23.72  | 23.52  | 23.69  | 23.82 | 23.75   | 23.65  | 24.4                      | 0           |
| 5               | QPSK   | 12 | 7  | 23.61  | 23.62  | 23.57  | 23.69 | 23.73   | 23.71  |                           |             |
| 5               | QPSK   | 12 | 13 | 23.47  | 23.59  | 23.63  | 23.57 | 23.72   | 23.78  |                           |             |
| 5               | QPSK   | 25 | 0  | 23.71  | 23.48  | 23.65  | 23.75 | 23.54   | 23.71  |                           |             |
| 5               | 16QAM  | 1  | 0  | 23.68  | 23.45  | 23.60  | 23.63 | 23.66   | 23.71  | 24.4                      | 0           |
| 5               | 16QAM  | 1  | 12 | 23.75  | 23.62  | 23.66  | 23.74 | 23.75   | 23.57  |                           |             |
| 5               | 16QAM  | 1  | 24 | 23.52  | 23.64  | 23.61  | 23.71 | 23.70   | 23.76  |                           |             |
| 5               | 16QAM  | 12 | 0  | 23.68  | 23.49  | 23.66  | 23.63 | 23.66   | 23.74  | 24.4                      | 0           |
| 5               | 16QAM  | 12 | 7  | 23.62  | 23.47  | 23.68  | 23.71 | 23.55   | 23.68  |                           |             |
| 5               | 16QAM  | 12 | 13 | 23.70  | 23.67  | 23.65  | 23.72 | 23.66   | 23.76  |                           |             |
| 5               | 16QAM  | 25 | 0  | 23.55  | 23.65  | 23.63  | 23.63 | 23.66   | 23.80  |                           |             |
| 5               | 64QAM  | 1  | 0  | 23.71  | 23.49  | 23.74  | 23.72 | 23.70   | 23.70  | 24.4                      | 0           |
| 5               | 64QAM  | 1  | 12 | 23.65  | 23.55  | 23.67  | 23.57 | 23.66   | 23.74  |                           |             |
| 5               | 64QAM  | 1  | 24 | 23.58  | 23.65  | 23.52  | 23.62 | 23.67   | 23.71  |                           |             |
| 5               | 64QAM  | 12 | 0  | 23.00  | 23.00  | 22.95  | 22.94 | 22.95   | 22.94  | 24                        | 0.4         |
| 5               | 64QAM  | 12 | 7  | 22.75  | 22.83  | 22.79  | 22.78 | 22.80   | 22.84  |                           |             |
| 5               | 64QAM  | 12 | 13 | 22.95  | 23.14  | 23.01  | 23.07 | 23.00   | 23.02  |                           |             |
| 5               | 64QAM  | 25 | 0  | 22.84  | 22.84  | 22.97  | 22.77 | 22.81   | 22.78  |                           |             |
| 5               | 256QAM | 1  | 0  | 21.00  | 21.08  | 21.11  | 21.03 | 21.06   | 20.97  | 22                        | 2.4         |
| 5               | 256QAM | 1  | 12 | 21.24  | 21.06  | 21.17  | 21.12 | 21.23   | 21.23  |                           |             |
| 5               | 256QAM | 1  | 24 | 21.04  | 21.06  | 21.02  | 21.13 | 21.11   | 21.19  |                           |             |
| 5               | 256QAM | 12 | 0  | 20.85  | 20.97  | 20.83  | 20.83 | 20.84   | 20.85  | 22                        | 2.4         |
| 5               | 256QAM | 12 | 7  | 21.08  | 20.84  | 20.98  | 20.98 | 20.97   | 20.92  |                           |             |
| 5               | 256QAM | 12 | 13 | 20.74  | 20.80  | 20.95  | 20.93 | 20.92   | 20.92  |                           |             |
| 5               | 256QAM | 25 | 0  | 20.97  | 21.04  | 21.12  | 21.09 | 20.90   | 20.91  |                           |             |

| Band 48 Ant4 DSI0 |            |         |           |                       |                              |                               |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |
| Frequency (MHz)   |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |
| 20                | QPSK       | 1       | 0         | 21.79                 | 21.90                        | 21.86                         | 21.85                  | 23                  | 0        |
| 20                | QPSK       | 1       | 49        | 21.81                 | 21.82                        | 21.84                         | 21.77                  |                     |          |
| 20                | QPSK       | 1       | 99        | 21.79                 | 21.81                        | 21.76                         | 21.74                  |                     |          |
| 20                | QPSK       | 50      | 0         | 20.97                 | 21.13                        | 20.86                         | 20.99                  | 22                  | 1        |
| 20                | QPSK       | 50      | 24        | 21.00                 | 20.96                        | 21.00                         | 20.97                  |                     |          |
| 20                | QPSK       | 50      | 50        | 20.95                 | 20.96                        | 21.02                         | 20.92                  |                     |          |
| 20                | QPSK       | 100     | 0         | 20.90                 | 21.07                        | 21.02                         | 20.93                  | 22                  | 1        |
| 20                | 16QAM      | 1       | 0         | 20.80                 | 20.73                        | 20.69                         | 20.78                  |                     |          |
| 20                | 16QAM      | 1       | 49        | 20.77                 | 20.75                        | 20.70                         | 20.68                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 20.70                 | 20.73                        | 20.70                         | 20.65                  | 21                  | 2        |
| 20                | 16QAM      | 50      | 0         | 19.82                 | 19.80                        | 19.83                         | 19.85                  |                     |          |
| 20                | 16QAM      | 50      | 24        | 19.92                 | 19.97                        | 19.93                         | 19.97                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 20.01                 | 19.99                        | 19.96                         | 19.94                  | 21                  | 2        |
| 20                | 16QAM      | 100     | 0         | 19.88                 | 19.94                        | 19.97                         | 19.96                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 19.74                 | 19.69                        | 19.71                         | 19.77                  |                     |          |
| 20                | 64QAM      | 1       | 49        | 19.65                 | 19.66                        | 19.67                         | 19.64                  | 20                  | 3        |
| 20                | 64QAM      | 1       | 99        | 19.71                 | 19.64                        | 19.66                         | 19.64                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 19.02                 | 18.95                        | 19.02                         | 18.99                  |                     |          |
| 20                | 64QAM      | 50      | 24        | 18.78                 | 18.74                        | 18.72                         | 18.80                  | 18                  | 5        |
| 20                | 64QAM      | 50      | 50        | 19.02                 | 18.95                        | 18.96                         | 18.90                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 18.88                 | 18.82                        | 18.86                         | 18.83                  |                     |          |
| 20                | 256QAM     | 1       | 0         | 16.72                 | 16.79                        | 16.75                         | 16.76                  | 18                  | 5        |
| 20                | 256QAM     | 1       | 49        | 16.79                 | 16.72                        | 16.69                         | 16.65                  |                     |          |
| 20                | 256QAM     | 1       | 99        | 16.70                 | 16.72                        | 16.70                         | 16.71                  |                     |          |
| 20                | 256QAM     | 50      | 0         | 17.02                 | 17.02                        | 17.09                         | 17.06                  | 18                  | 5        |
| 20                | 256QAM     | 50      | 24        | 16.97                 | 17.02                        | 17.05                         | 16.94                  |                     |          |
| 20                | 256QAM     | 50      | 50        | 16.79                 | 16.80                        | 16.81                         | 16.73                  |                     |          |
| 20                | 256QAM     | 100     | 0         | 16.97                 | 16.92                        | 16.98                         | 16.91                  | 23                  | 0        |
| 15                | QPSK       | 1       | 0         | 21.62                 | 21.79                        | 21.71                         | 21.69                  |                     |          |
| 15                | QPSK       | 1       | 37        | 21.77                 | 21.73                        | 21.66                         | 21.64                  |                     |          |
| 15                | QPSK       | 1       | 74        | 21.72                 | 21.74                        | 21.71                         | 21.70                  | 22                  | 1        |
| 15                | QPSK       | 36      | 0         | 20.80                 | 20.75                        | 20.80                         | 20.84                  |                     |          |
| 15                | QPSK       | 36      | 20        | 20.91                 | 20.88                        | 20.84                         | 20.94                  |                     |          |
| 15                | QPSK       | 36      | 39        | 20.87                 | 20.90                        | 20.99                         | 20.82                  | 22                  | 1        |
| 15                | QPSK       | 75      | 0         | 20.81                 | 20.89                        | 20.89                         | 20.81                  |                     |          |
| 15                | 16QAM      | 1       | 0         | 20.72                 | 20.66                        | 20.60                         | 20.64                  |                     |          |
| 15                | 16QAM      | 1       | 37        | 20.63                 | 20.66                        | 20.58                         | 20.60                  | 22                  | 1        |
| 15                | 16QAM      | 1       | 74        | 20.61                 | 20.60                        | 20.64                         | 20.65                  |                     |          |



|                 |        |    |    |       |        |        |       |                        |             |
|-----------------|--------|----|----|-------|--------|--------|-------|------------------------|-------------|
| 15              | 16QAM  | 36 | 0  | 19.65 | 19.73  | 19.67  | 19.81 | 21                     | 2           |
| 15              | 16QAM  | 36 | 20 | 19.78 | 19.95  | 19.83  | 19.82 |                        |             |
| 15              | 16QAM  | 36 | 39 | 19.91 | 19.92  | 19.80  | 19.90 |                        |             |
| 15              | 16QAM  | 75 | 0  | 19.76 | 19.91  | 19.81  | 19.85 |                        |             |
| 15              | 64QAM  | 1  | 0  | 19.59 | 19.52  | 19.58  | 19.61 | 21                     | 2           |
| 15              | 64QAM  | 1  | 37 | 19.67 | 19.66  | 19.54  | 19.56 |                        |             |
| 15              | 64QAM  | 1  | 74 | 19.56 | 19.52  | 19.54  | 19.51 |                        |             |
| 15              | 64QAM  | 36 | 0  | 18.98 | 18.81  | 18.98  | 18.90 |                        |             |
| 15              | 64QAM  | 36 | 20 | 18.69 | 18.58  | 18.57  | 18.63 | 20                     | 3           |
| 15              | 64QAM  | 36 | 39 | 18.84 | 18.91  | 18.89  | 18.86 |                        |             |
| 15              | 64QAM  | 75 | 0  | 18.76 | 18.74  | 18.78  | 18.71 |                        |             |
| 15              | 256QAM | 1  | 0  | 16.56 | 16.61  | 16.66  | 16.71 |                        |             |
| 15              | 256QAM | 1  | 37 | 16.70 | 16.63  | 16.53  | 16.55 | 18                     | 5           |
| 15              | 256QAM | 1  | 74 | 16.67 | 16.69  | 16.58  | 16.59 |                        |             |
| 15              | 256QAM | 36 | 0  | 16.86 | 16.94  | 16.98  | 16.91 |                        |             |
| 15              | 256QAM | 36 | 20 | 16.82 | 16.84  | 16.99  | 16.86 |                        |             |
| 15              | 256QAM | 36 | 39 | 16.63 | 16.75  | 16.79  | 16.57 | 18                     | 5           |
| 15              | 256QAM | 75 | 0  | 16.81 | 16.85  | 16.84  | 16.78 |                        |             |
| Channel         |        |    |    | 55290 | 55815  | 56165  | 56690 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3555  | 3607.5 | 3642.5 | 3695  |                        |             |
| 10              | QPSK   | 1  | 0  | 21.66 | 21.83  | 21.82  | 21.67 | 23                     | 0           |
| 10              | QPSK   | 1  | 25 | 21.71 | 21.71  | 21.71  | 21.64 |                        |             |
| 10              | QPSK   | 1  | 49 | 21.74 | 21.77  | 21.69  | 21.65 |                        |             |
| 10              | QPSK   | 25 | 0  | 20.81 | 20.84  | 20.84  | 20.97 |                        |             |
| 10              | QPSK   | 25 | 12 | 20.90 | 20.83  | 20.87  | 20.90 | 22                     | 1           |
| 10              | QPSK   | 25 | 25 | 20.79 | 20.85  | 20.96  | 20.76 |                        |             |
| 10              | QPSK   | 50 | 0  | 20.74 | 20.94  | 20.95  | 20.80 |                        |             |
| 10              | 16QAM  | 1  | 0  | 20.71 | 20.56  | 20.53  | 20.66 |                        |             |
| 10              | 16QAM  | 1  | 25 | 20.70 | 20.58  | 20.63  | 20.62 | 22                     | 1           |
| 10              | 16QAM  | 1  | 49 | 20.65 | 20.64  | 20.63  | 20.61 |                        |             |
| 10              | 16QAM  | 25 | 0  | 19.73 | 19.73  | 19.73  | 19.81 |                        |             |
| 10              | 16QAM  | 25 | 12 | 19.89 | 19.81  | 19.82  | 19.89 |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.89 | 19.94  | 19.80  | 19.91 | 21                     | 2           |
| 10              | 16QAM  | 50 | 0  | 19.72 | 19.91  | 19.89  | 19.84 |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.67 | 19.53  | 19.67  | 19.60 |                        |             |
| 10              | 64QAM  | 1  | 25 | 19.59 | 19.56  | 19.51  | 19.62 |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.67 | 19.53  | 19.55  | 19.65 | 21                     | 2           |
| 10              | 64QAM  | 25 | 0  | 18.99 | 18.86  | 18.88  | 18.93 |                        |             |
| 10              | 64QAM  | 25 | 12 | 18.69 | 18.66  | 18.63  | 18.73 |                        |             |
| 10              | 64QAM  | 25 | 25 | 18.88 | 18.80  | 18.89  | 18.83 |                        |             |
| 10              | 64QAM  | 50 | 0  | 18.84 | 18.68  | 18.71  | 18.75 | 20                     | 3           |
| 10              | 256QAM | 1  | 0  | 16.66 | 16.61  | 16.64  | 16.66 |                        |             |
| 10              | 256QAM | 1  | 25 | 16.77 | 16.67  | 16.58  | 16.50 |                        |             |
| 10              | 256QAM | 1  | 49 | 16.52 | 16.57  | 16.58  | 16.54 |                        |             |
| 10              | 256QAM | 25 | 0  | 16.91 | 16.88  | 17.02  | 17.03 | 18                     | 5           |
| 10              | 256QAM | 25 | 12 | 16.95 | 16.92  | 16.90  | 16.89 |                        |             |
| 10              | 256QAM | 25 | 25 | 16.70 | 16.76  | 16.66  | 16.62 |                        |             |
| 10              | 256QAM | 50 | 0  | 16.91 | 16.83  | 16.95  | 16.87 |                        |             |
| Channel         |        |    |    | 55265 | 55810  | 56170  | 56715 | Tune-up limit          | MPR         |



| Frequency (MHz) |        |    |    | 3552.5 | 3607  | 3643  | 3697.5 | (dBm) | (dB) |
|-----------------|--------|----|----|--------|-------|-------|--------|-------|------|
| 5               | QPSK   | 1  | 0  | 21.68  | 21.77 | 21.79 | 21.78  | 23    | 0    |
| 5               | QPSK   | 1  | 12 | 21.73  | 21.66 | 21.68 | 21.72  |       |      |
| 5               | QPSK   | 1  | 24 | 21.65  | 21.72 | 21.74 | 21.57  |       |      |
| 5               | QPSK   | 12 | 0  | 20.86  | 20.82 | 20.78 | 20.94  | 22    | 1    |
| 5               | QPSK   | 12 | 7  | 20.89  | 20.88 | 20.98 | 20.90  |       |      |
| 5               | QPSK   | 12 | 13 | 20.77  | 20.81 | 20.84 | 20.81  |       |      |
| 5               | QPSK   | 25 | 0  | 20.84  | 20.81 | 20.89 | 20.90  |       |      |
| 5               | 16QAM  | 1  | 0  | 20.72  | 20.70 | 20.54 | 20.75  | 22    | 1    |
| 5               | 16QAM  | 1  | 12 | 20.60  | 20.63 | 20.56 | 20.52  |       |      |
| 5               | 16QAM  | 1  | 24 | 20.53  | 20.64 | 20.67 | 20.55  |       |      |
| 5               | 16QAM  | 12 | 0  | 19.69  | 19.64 | 19.67 | 19.72  | 21    | 2    |
| 5               | 16QAM  | 12 | 7  | 19.86  | 19.85 | 19.83 | 19.82  |       |      |
| 5               | 16QAM  | 12 | 13 | 19.97  | 19.83 | 19.91 | 19.79  |       |      |
| 5               | 16QAM  | 25 | 0  | 19.76  | 19.79 | 19.91 | 19.93  |       |      |
| 5               | 64QAM  | 1  | 0  | 19.59  | 19.64 | 19.65 | 19.64  | 21    | 2    |
| 5               | 64QAM  | 1  | 12 | 19.50  | 19.53 | 19.59 | 19.52  |       |      |
| 5               | 64QAM  | 1  | 24 | 19.56  | 19.51 | 19.56 | 19.76  |       |      |
| 5               | 64QAM  | 12 | 0  | 18.93  | 18.87 | 18.90 | 18.85  | 20    | 3    |
| 5               | 64QAM  | 12 | 7  | 18.65  | 18.71 | 18.63 | 18.75  |       |      |
| 5               | 64QAM  | 12 | 13 | 18.89  | 18.81 | 18.83 | 18.80  |       |      |
| 5               | 64QAM  | 25 | 0  | 18.77  | 18.75 | 18.71 | 18.75  |       |      |
| 5               | 256QAM | 1  | 0  | 16.67  | 16.65 | 16.73 | 16.58  | 18    | 5    |
| 5               | 256QAM | 1  | 12 | 16.75  | 16.61 | 16.58 | 16.57  |       |      |
| 5               | 256QAM | 1  | 24 | 16.63  | 16.56 | 16.65 | 16.55  |       |      |
| 5               | 256QAM | 12 | 0  | 16.96  | 16.99 | 17.00 | 17.02  | 18    | 5    |
| 5               | 256QAM | 12 | 7  | 16.94  | 16.89 | 16.97 | 16.89  |       |      |
| 5               | 256QAM | 12 | 13 | 16.69  | 16.66 | 16.78 | 16.63  |       |      |
| 5               | 256QAM | 25 | 0  | 16.83  | 16.76 | 16.81 | 16.76  |       |      |

### Reduced Power Mode for DSI 1

#### Band 38 Ant3 DSI1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |             |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |             |
| 20              | QPSK       | 1       | 0         | 20.22                    | 20.35                       | 20.26                     |                        |             |
| 20              | QPSK       | 1       | 49        | 20.15                    | 20.30                       | 20.23                     | 21.3                   | 0           |
| 20              | QPSK       | 1       | 99        | 20.30                    | 20.25                       | 20.28                     |                        |             |
| 20              | QPSK       | 50      | 0         | 19.89                    | 20.25                       | 20.11                     |                        |             |
| 20              | QPSK       | 50      | 24        | 20.00                    | 20.02                       | 20.05                     | 21.3                   | 0           |
| 20              | QPSK       | 50      | 50        | 20.02                    | 20.05                       | 20.05                     |                        |             |
| 20              | QPSK       | 100     | 0         | 20.24                    | 20.31                       | 20.10                     |                        |             |
| 20              | 16QAM      | 1       | 0         | 20.10                    | 20.32                       | 20.07                     | 21.3                   | 0           |
| 20              | 16QAM      | 1       | 49        | 20.01                    | 20.08                       | 20.29                     |                        |             |
| 20              | 16QAM      | 1       | 99        | 20.09                    | 20.10                       | 20.16                     |                        |             |
| 20              | 16QAM      | 50      | 0         | 20.22                    | 20.23                       | 20.28                     | 21.3                   | 0           |
| 20              | 16QAM      | 50      | 24        | 20.20                    | 20.04                       | 20.07                     |                        |             |
| 20              | 16QAM      | 50      | 50        | 20.00                    | 20.09                       | 19.95                     |                        |             |
| 20              | 16QAM      | 100     | 0         | 19.92                    | 20.12                       | 20.17                     | 21.3                   | 0           |
| 20              | 64QAM      | 1       | 0         | 20.06                    | 20.18                       | 19.99                     |                        |             |
| 20              | 64QAM      | 1       | 49        | 19.84                    | 20.07                       | 19.93                     |                        |             |
| 20              | 64QAM      | 1       | 99        | 19.93                    | 19.75                       | 19.95                     | 21                     | 0.3         |
| 20              | 64QAM      | 50      | 0         | 19.62                    | 19.61                       | 19.63                     |                        |             |
| 20              | 64QAM      | 50      | 24        | 19.45                    | 19.52                       | 19.51                     |                        |             |
| 20              | 64QAM      | 50      | 50        | 19.58                    | 19.61                       | 19.46                     | 19                     | 2.3         |
| 20              | 64QAM      | 100     | 0         | 19.58                    | 19.55                       | 19.60                     |                        |             |
| 20              | 256QAM     | 1       | 0         | 17.70                    | 17.69                       | 17.73                     |                        |             |
| 20              | 256QAM     | 1       | 49        | 17.56                    | 17.68                       | 17.71                     | 19                     | 2.3         |
| 20              | 256QAM     | 1       | 99        | 17.48                    | 17.46                       | 17.50                     |                        |             |
| 20              | 256QAM     | 50      | 0         | 17.54                    | 17.58                       | 17.52                     |                        |             |
| 20              | 256QAM     | 50      | 24        | 17.75                    | 17.67                       | 17.77                     | 19                     | 2.3         |
| 20              | 256QAM     | 50      | 50        | 17.60                    | 17.59                       | 17.65                     |                        |             |
| 20              | 256QAM     | 100     | 0         | 17.78                    | 17.80                       | 17.76                     |                        |             |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |             |
| 15              | QPSK       | 1       | 0         | 20.07                    | 20.19                       | 20.19                     |                        |             |
| 15              | QPSK       | 1       | 37        | 20.02                    | 20.21                       | 20.14                     | 21.3                   | 0           |
| 15              | QPSK       | 1       | 74        | 20.21                    | 20.16                       | 20.17                     |                        |             |
| 15              | QPSK       | 36      | 0         | 19.79                    | 20.19                       | 20.02                     | 21.3                   | 0           |
| 15              | QPSK       | 36      | 20        | 19.86                    | 19.92                       | 19.97                     |                        |             |
| 15              | QPSK       | 36      | 39        | 19.97                    | 19.93                       | 19.92                     |                        |             |
| 15              | QPSK       | 75      | 0         | 20.09                    | 20.16                       | 20.01                     | 21.3                   | 0           |
| 15              | 16QAM      | 1       | 0         | 19.97                    | 20.26                       | 19.95                     |                        |             |
| 15              | 16QAM      | 1       | 37        | 19.93                    | 19.97                       | 20.25                     |                        |             |
| 15              | 16QAM      | 1       | 74        | 19.94                    | 20.05                       | 20.11                     | 21.3                   | 0           |
| 15              | 16QAM      | 36      | 0         | 20.07                    | 20.10                       | 20.20                     |                        |             |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 20.12  | 19.97 | 19.96  |                        |             |
| 15              | 16QAM  | 36 | 39 | 19.94  | 20.01 | 19.89  |                        |             |
| 15              | 16QAM  | 75 | 0  | 19.77  | 20.03 | 20.09  |                        |             |
| 15              | 64QAM  | 1  | 0  | 19.96  | 20.14 | 19.84  | 21.3                   | 0           |
| 15              | 64QAM  | 1  | 37 | 19.78  | 19.94 | 19.88  |                        |             |
| 15              | 64QAM  | 1  | 74 | 19.79  | 19.69 | 19.88  |                        |             |
| 15              | 64QAM  | 36 | 0  | 19.54  | 19.56 | 19.55  | 21                     | 0.3         |
| 15              | 64QAM  | 36 | 20 | 19.38  | 19.40 | 19.46  |                        |             |
| 15              | 64QAM  | 36 | 39 | 19.48  | 19.55 | 19.40  |                        |             |
| 15              | 64QAM  | 75 | 0  | 19.53  | 19.43 | 19.50  | 19                     | 2.3         |
| 15              | 256QAM | 1  | 0  | 17.54  | 17.56 | 17.66  |                        |             |
| 15              | 256QAM | 1  | 37 | 17.49  | 17.52 | 17.65  |                        |             |
| 15              | 256QAM | 1  | 74 | 17.36  | 17.38 | 17.40  | 19                     | 2.3         |
| 15              | 256QAM | 36 | 0  | 17.46  | 17.46 | 17.40  |                        |             |
| 15              | 256QAM | 36 | 20 | 17.68  | 17.56 | 17.73  |                        |             |
| 15              | 256QAM | 36 | 39 | 17.56  | 17.52 | 17.59  |                        |             |
| 15              | 256QAM | 75 | 0  | 17.69  | 17.73 | 17.62  |                        |             |
| Channel         |        |    |    | 37800  | 38000 | 38200  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |             |
| 10              | QPSK   | 1  | 0  | 20.18  | 20.19 | 20.12  | 21.3                   | 0           |
| 10              | QPSK   | 1  | 25 | 20.06  | 20.22 | 20.10  |                        |             |
| 10              | QPSK   | 1  | 49 | 20.15  | 20.13 | 20.14  |                        |             |
| 10              | QPSK   | 25 | 0  | 19.73  | 20.11 | 20.02  | 21.3                   | 0           |
| 10              | QPSK   | 25 | 12 | 19.88  | 19.88 | 19.95  |                        |             |
| 10              | QPSK   | 25 | 25 | 19.87  | 19.98 | 19.99  |                        |             |
| 10              | QPSK   | 50 | 0  | 20.14  | 20.18 | 20.03  |                        |             |
| 10              | 16QAM  | 1  | 0  | 20.04  | 20.34 | 19.95  | 21.3                   | 0           |
| 10              | 16QAM  | 1  | 25 | 19.85  | 20.02 | 20.20  |                        |             |
| 10              | 16QAM  | 1  | 49 | 19.97  | 19.94 | 20.11  |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.10  | 20.12 | 20.21  | 21.3                   | 0           |
| 10              | 16QAM  | 25 | 12 | 20.09  | 19.94 | 19.99  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.88  | 19.95 | 19.88  |                        |             |
| 10              | 16QAM  | 50 | 0  | 19.87  | 20.04 | 20.01  |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.91  | 20.10 | 19.87  | 21.3                   | 0           |
| 10              | 64QAM  | 1  | 25 | 19.75  | 19.99 | 19.78  |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.81  | 19.66 | 19.81  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.50  | 19.55 | 19.50  | 21                     | 0.3         |
| 10              | 64QAM  | 25 | 12 | 19.34  | 19.41 | 19.47  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.48  | 19.54 | 19.37  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.51  | 19.45 | 19.46  |                        |             |
| 10              | 256QAM | 1  | 0  | 17.54  | 17.57 | 17.66  | 19                     | 2.3         |
| 10              | 256QAM | 1  | 25 | 17.43  | 17.64 | 17.66  |                        |             |
| 10              | 256QAM | 1  | 49 | 17.40  | 17.32 | 17.36  |                        |             |
| 10              | 256QAM | 25 | 0  | 17.41  | 17.53 | 17.40  | 19                     | 2.3         |
| 10              | 256QAM | 25 | 12 | 17.67  | 17.52 | 17.68  |                        |             |
| 10              | 256QAM | 25 | 25 | 17.55  | 17.53 | 17.59  |                        |             |
| 10              | 256QAM | 50 | 0  | 17.65  | 17.74 | 17.67  |                        |             |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |             |



|   |        |    |    |       |       |       |      |     |
|---|--------|----|----|-------|-------|-------|------|-----|
| 5 | QPSK   | 1  | 0  | 20.09 | 20.23 | 20.10 | 21.3 | 0   |
| 5 | QPSK   | 1  | 12 | 20.00 | 20.29 | 20.12 |      |     |
| 5 | QPSK   | 1  | 24 | 20.17 | 20.18 | 20.23 |      |     |
| 5 | QPSK   | 12 | 0  | 19.82 | 20.21 | 20.01 | 21.3 | 0   |
| 5 | QPSK   | 12 | 7  | 19.94 | 19.97 | 20.00 |      |     |
| 5 | QPSK   | 12 | 13 | 19.92 | 20.01 | 19.90 |      |     |
| 5 | QPSK   | 25 | 0  | 20.19 | 20.25 | 19.97 |      |     |
| 5 | 16QAM  | 1  | 0  | 19.99 | 20.30 | 19.92 | 21.3 | 0   |
| 5 | 16QAM  | 1  | 12 | 19.89 | 19.98 | 20.22 |      |     |
| 5 | 16QAM  | 1  | 24 | 19.97 | 20.04 | 20.01 |      |     |
| 5 | 16QAM  | 12 | 0  | 20.15 | 20.12 | 20.13 | 21.3 | 0   |
| 5 | 16QAM  | 12 | 7  | 20.06 | 19.98 | 19.91 |      |     |
| 5 | 16QAM  | 12 | 13 | 19.90 | 20.05 | 19.81 |      |     |
| 5 | 16QAM  | 25 | 0  | 19.85 | 20.05 | 20.05 |      |     |
| 5 | 64QAM  | 1  | 0  | 19.93 | 20.08 | 19.94 | 21.3 | 0   |
| 5 | 64QAM  | 1  | 12 | 19.78 | 20.00 | 19.84 |      |     |
| 5 | 64QAM  | 1  | 24 | 19.86 | 19.60 | 19.88 |      |     |
| 5 | 64QAM  | 12 | 0  | 19.48 | 19.52 | 19.47 | 21   | 0.3 |
| 5 | 64QAM  | 12 | 7  | 19.40 | 19.42 | 19.40 |      |     |
| 5 | 64QAM  | 12 | 13 | 19.52 | 19.49 | 19.39 |      |     |
| 5 | 64QAM  | 25 | 0  | 19.45 | 19.39 | 19.51 |      |     |
| 5 | 256QAM | 1  | 0  | 17.57 | 17.61 | 17.62 | 19   | 2.3 |
| 5 | 256QAM | 1  | 12 | 17.41 | 17.62 | 17.64 |      |     |
| 5 | 256QAM | 1  | 24 | 17.43 | 17.34 | 17.46 |      |     |
| 5 | 256QAM | 12 | 0  | 17.42 | 17.49 | 17.40 | 19   | 2.3 |
| 5 | 256QAM | 12 | 7  | 17.60 | 17.54 | 17.71 |      |     |
| 5 | 256QAM | 12 | 13 | 17.56 | 17.51 | 17.59 |      |     |
| 5 | 256QAM | 25 | 0  | 17.64 | 17.66 | 17.66 |      |     |

| Band 41 Ant3 DSI1 |            |         |           |                              |                       |                              |                          |                               |                        |                     |          |
|-------------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 39790                        | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz)   |            |         |           | 2510                         | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                | QPSK       | 1       | 0         | 20.43                        | 20.20                 | 20.34                        | 20.48                    | 20.34                         | 20.35                  |                     |          |
| 20                | QPSK       | 1       | 49        | 20.30                        | 20.27                 | 20.24                        | 20.41                    | 20.35                         | 20.28                  | 21.3                | 0        |
| 20                | QPSK       | 1       | 99        | 20.47                        | 20.36                 | 20.41                        | 20.37                    | 20.41                         | 20.30                  | 21.3                | 0        |
| 20                | QPSK       | 50      | 0         | 20.21                        | 20.06                 | 20.03                        | 20.37                    | 20.15                         | 20.06                  |                     |          |
| 20                | QPSK       | 50      | 24        | 20.16                        | 20.09                 | 20.11                        | 20.18                    | 20.15                         | 20.34                  |                     |          |
| 20                | QPSK       | 50      | 50        | 20.23                        | 20.13                 | 20.18                        | 20.12                    | 20.19                         | 20.35                  |                     |          |
| 20                | QPSK       | 100     | 0         | 20.19                        | 20.22                 | 20.29                        | 20.35                    | 20.16                         | 20.29                  | 21.3                | 0        |
| 20                | 16QAM      | 1       | 0         | 20.29                        | 20.24                 | 20.17                        | 20.46                    | 20.21                         | 20.27                  |                     |          |
| 20                | 16QAM      | 1       | 49        | 20.12                        | 20.30                 | 20.08                        | 20.22                    | 20.38                         | 20.29                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 20.29                        | 20.09                 | 20.21                        | 20.25                    | 20.29                         | 20.44                  | 21.3                | 0        |
| 20                | 16QAM      | 50      | 0         | 20.20                        | 20.13                 | 20.30                        | 20.28                    | 20.40                         | 20.15                  |                     |          |
| 20                | 16QAM      | 50      | 24        | 20.17                        | 20.22                 | 20.30                        | 20.15                    | 20.20                         | 20.22                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 20.25                        | 20.19                 | 20.14                        | 20.20                    | 20.10                         | 20.19                  |                     |          |
| 20                | 16QAM      | 100     | 0         | 20.12                        | 20.05                 | 20.07                        | 20.23                    | 20.23                         | 20.31                  | 21.3                | 0        |
| 20                | 64QAM      | 1       | 0         | 20.19                        | 20.16                 | 20.13                        | 20.28                    | 20.14                         | 20.10                  |                     |          |
| 20                | 64QAM      | 1       | 49        | 20.10                        | 20.04                 | 19.92                        | 20.19                    | 20.08                         | 20.12                  |                     |          |
| 20                | 64QAM      | 1       | 99        | 19.95                        | 19.89                 | 19.98                        | 19.87                    | 20.06                         | 20.07                  | 21                  | 0.3      |
| 20                | 64QAM      | 50      | 0         | 19.76                        | 19.71                 | 19.69                        | 19.68                    | 19.76                         | 19.69                  |                     |          |
| 20                | 64QAM      | 50      | 24        | 19.51                        | 19.55                 | 19.56                        | 19.57                    | 19.63                         | 19.60                  |                     |          |
| 20                | 64QAM      | 50      | 50        | 19.60                        | 19.70                 | 19.71                        | 19.65                    | 19.60                         | 19.58                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 19.66                        | 19.75                 | 19.62                        | 19.68                    | 19.68                         | 19.74                  | 19                  | 2.3      |
| 20                | 256QAM     | 1       | 0         | 17.74                        | 17.81                 | 17.81                        | 17.78                    | 17.86                         | 17.79                  |                     |          |
| 20                | 256QAM     | 1       | 49        | 17.71                        | 17.75                 | 17.68                        | 17.74                    | 17.81                         | 17.79                  |                     |          |
| 20                | 256QAM     | 1       | 99        | 17.57                        | 17.60                 | 17.54                        | 17.58                    | 17.61                         | 17.57                  | 19                  | 2.3      |
| 20                | 256QAM     | 50      | 0         | 17.72                        | 17.61                 | 17.66                        | 17.67                    | 17.64                         | 17.62                  |                     |          |
| 20                | 256QAM     | 50      | 24        | 17.78                        | 17.86                 | 17.87                        | 17.81                    | 17.86                         | 17.80                  |                     |          |
| 20                | 256QAM     | 50      | 50        | 17.60                        | 17.60                 | 17.73                        | 17.66                    | 17.73                         | 17.64                  |                     |          |
| 20                | 256QAM     | 100     | 0         | 17.87                        | 17.83                 | 17.93                        | 17.89                    | 17.83                         | 17.85                  | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 39765                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  |                     |          |
| Frequency (MHz)   |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15                | QPSK       | 1       | 0         | 20.27                        | 20.07                 | 20.22                        | 20.32                    | 20.25                         | 20.18                  | 21.30               | 0        |
| 15                | QPSK       | 1       | 37        | 20.21                        | 20.17                 | 20.13                        | 20.32                    | 20.30                         | 20.13                  |                     |          |
| 15                | QPSK       | 1       | 74        | 20.43                        | 20.25                 | 20.26                        | 20.25                    | 20.32                         | 20.15                  |                     |          |
| 15                | QPSK       | 36      | 0         | 20.13                        | 20.00                 | 19.95                        | 20.28                    | 20.08                         | 20.02                  | 21.3                | 0        |
| 15                | QPSK       | 36      | 20        | 20.08                        | 20.03                 | 20.04                        | 20.11                    | 20.04                         | 20.28                  |                     |          |
| 15                | QPSK       | 36      | 39        | 20.08                        | 20.07                 | 20.04                        | 20.02                    | 20.15                         | 20.20                  |                     |          |
| 15                | QPSK       | 75      | 0         | 20.09                        | 20.06                 | 20.22                        | 20.26                    | 20.02                         | 20.22                  |                     |          |
| 15                | 16QAM      | 1       | 0         | 20.19                        | 20.10                 | 20.03                        | 20.36                    | 20.09                         | 20.15                  | 21.3                | 0        |
| 15                | 16QAM      | 1       | 37        | 20.01                        | 20.14                 | 20.02                        | 20.11                    | 20.31                         | 20.20                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 20.22                        | 19.98                 | 20.15                        | 20.10                    | 20.17                         | 20.35                  |                     |          |
| 15                | 16QAM      | 36      | 0         | 20.06                        | 20.08                 | 20.25                        | 20.16                    | 20.26                         | 20.10                  | 21.3                | 0        |

|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 20.06  | 20.11  | 20.17  | 20.03 | 20.11   | 20.12  |                           |             |
| 15              | 16QAM  | 36 | 39 | 20.10  | 20.11  | 20.02  | 20.12 | 20.03   | 20.11  |                           |             |
| 15              | 16QAM  | 75 | 0  | 20.04  | 19.96  | 19.97  | 20.12 | 20.10   | 20.15  |                           |             |
| 15              | 64QAM  | 1  | 0  | 20.05  | 20.10  | 20.00  | 20.15 | 20.06   | 20.05  | 21.3                      | 0           |
| 15              | 64QAM  | 1  | 37 | 20.00  | 19.88  | 19.84  | 20.08 | 19.94   | 20.04  |                           |             |
| 15              | 64QAM  | 1  | 74 | 19.80  | 19.84  | 19.90  | 19.75 | 19.92   | 20.01  |                           |             |
| 15              | 64QAM  | 36 | 0  | 19.68  | 19.58  | 19.56  | 19.60 | 19.62   | 19.59  | 21                        | 0.3         |
| 15              | 64QAM  | 36 | 20 | 19.38  | 19.42  | 19.43  | 19.46 | 19.52   | 19.48  |                           |             |
| 15              | 64QAM  | 36 | 39 | 19.51  | 19.60  | 19.57  | 19.60 | 19.48   | 19.51  |                           |             |
| 15              | 64QAM  | 75 | 0  | 19.55  | 19.70  | 19.56  | 19.61 | 19.57   | 19.60  | 19                        | 2.3         |
| 15              | 256QAM | 1  | 0  | 17.63  | 17.75  | 17.74  | 17.73 | 17.81   | 17.65  |                           |             |
| 15              | 256QAM | 1  | 37 | 17.64  | 17.68  | 17.60  | 17.63 | 17.71   | 17.70  |                           |             |
| 15              | 256QAM | 1  | 74 | 17.43  | 17.52  | 17.49  | 17.51 | 17.48   | 17.50  | 19                        | 2.3         |
| 15              | 256QAM | 36 | 0  | 17.57  | 17.45  | 17.56  | 17.56 | 17.50   | 17.48  |                           |             |
| 15              | 256QAM | 36 | 20 | 17.73  | 17.82  | 17.75  | 17.69 | 17.74   | 17.74  |                           |             |
| 15              | 256QAM | 36 | 39 | 17.48  | 17.54  | 17.68  | 17.57 | 17.65   | 17.58  | 19                        | 2.3         |
| 15              | 256QAM | 75 | 0  | 17.82  | 17.74  | 17.80  | 17.83 | 17.76   | 17.69  |                           |             |
| Channel         |        |    |    | 39740  | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2505   | 2501   | 2547   | 2593  | 2639    | 2685   |                           |             |
| 10              | QPSK   | 1  | 0  | 20.36  | 20.06  | 20.24  | 20.30 | 20.20   | 20.23  | 21.30                     | 0           |
| 10              | QPSK   | 1  | 25 | 20.24  | 20.18  | 20.09  | 20.36 | 20.29   | 20.15  |                           |             |
| 10              | QPSK   | 1  | 49 | 20.33  | 20.28  | 20.34  | 20.21 | 20.37   | 20.19  |                           |             |
| 10              | QPSK   | 25 | 0  | 20.07  | 19.94  | 19.92  | 20.24 | 20.02   | 20.00  | 21.3                      | 0           |
| 10              | QPSK   | 25 | 12 | 20.04  | 19.96  | 20.02  | 20.02 | 20.04   | 20.29  |                           |             |
| 10              | QPSK   | 25 | 25 | 20.08  | 20.05  | 20.13  | 19.97 | 20.07   | 20.21  |                           |             |
| 10              | QPSK   | 50 | 0  | 20.03  | 20.12  | 20.24  | 20.24 | 20.10   | 20.21  | 21.3                      | 0           |
| 10              | 16QAM  | 1  | 0  | 20.14  | 20.16  | 20.05  | 20.38 | 20.07   | 20.11  |                           |             |
| 10              | 16QAM  | 1  | 25 | 20.05  | 20.20  | 20.03  | 20.16 | 20.31   | 20.15  |                           |             |
| 10              | 16QAM  | 1  | 49 | 20.23  | 20.01  | 20.16  | 20.11 | 20.15   | 20.40  | 21.3                      | 0           |
| 10              | 16QAM  | 25 | 0  | 20.08  | 19.99  | 20.15  | 20.19 | 20.32   | 20.09  |                           |             |
| 10              | 16QAM  | 25 | 12 | 20.04  | 20.12  | 20.18  | 20.04 | 20.07   | 20.14  |                           |             |
| 10              | 16QAM  | 25 | 25 | 20.17  | 20.14  | 19.99  | 20.09 | 19.98   | 20.12  | 21.3                      | 0           |
| 10              | 16QAM  | 50 | 0  | 20.04  | 19.99  | 19.95  | 20.16 | 20.14   | 20.22  |                           |             |
| 10              | 64QAM  | 1  | 0  | 20.06  | 20.10  | 19.97  | 20.23 | 20.01   | 20.03  |                           |             |
| 10              | 64QAM  | 1  | 25 | 20.00  | 19.94  | 19.86  | 20.12 | 19.98   | 20.08  | 21.3                      | 0           |
| 10              | 64QAM  | 1  | 49 | 19.86  | 19.74  | 19.85  | 19.82 | 19.92   | 20.00  |                           |             |
| 10              | 64QAM  | 25 | 0  | 19.71  | 19.61  | 19.58  | 19.60 | 19.68   | 19.65  |                           |             |
| 10              | 64QAM  | 25 | 12 | 19.47  | 19.40  | 19.43  | 19.52 | 19.49   | 19.52  | 21                        | 0.3         |
| 10              | 64QAM  | 25 | 25 | 19.52  | 19.61  | 19.57  | 19.58 | 19.53   | 19.43  |                           |             |
| 10              | 64QAM  | 50 | 0  | 19.57  | 19.61  | 19.53  | 19.59 | 19.63   | 19.61  |                           |             |
| 10              | 256QAM | 1  | 0  | 17.63  | 17.69  | 17.67  | 17.66 | 17.72   | 17.69  | 19                        | 2.3         |
| 10              | 256QAM | 1  | 25 | 17.65  | 17.63  | 17.63  | 17.64 | 17.69   | 17.63  |                           |             |
| 10              | 256QAM | 1  | 49 | 17.42  | 17.53  | 17.48  | 17.43 | 17.57   | 17.47  |                           |             |
| 10              | 256QAM | 25 | 0  | 17.65  | 17.50  | 17.51  | 17.57 | 17.50   | 17.55  | 19                        | 2.3         |
| 10              | 256QAM | 25 | 12 | 17.69  | 17.76  | 17.82  | 17.68 | 17.71   | 17.73  |                           |             |
| 10              | 256QAM | 25 | 25 | 17.48  | 17.50  | 17.65  | 17.53 | 17.63   | 17.55  |                           |             |
| 10              | 256QAM | 50 | 0  | 17.73  | 17.71  | 17.85  | 17.83 | 17.78   | 17.73  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  |                           |             |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |

|   |        |    |    |       |       |       |       |       |       |       |     |
|---|--------|----|----|-------|-------|-------|-------|-------|-------|-------|-----|
| 5 | QPSK   | 1  | 0  | 20.39 | 20.07 | 20.28 | 20.34 | 20.28 | 20.20 | 21.30 | 0   |
| 5 | QPSK   | 1  | 12 | 20.22 | 20.20 | 20.11 | 20.35 | 20.30 | 20.18 |       |     |
| 5 | QPSK   | 1  | 24 | 20.39 | 20.24 | 20.34 | 20.25 | 20.28 | 20.24 |       |     |
| 5 | QPSK   | 12 | 0  | 20.08 | 19.99 | 19.97 | 20.33 | 20.09 | 19.96 | 21.3  | 0   |
| 5 | QPSK   | 12 | 7  | 20.05 | 19.94 | 20.03 | 20.08 | 20.02 | 20.23 |       |     |
| 5 | QPSK   | 12 | 13 | 20.07 | 20.03 | 20.07 | 19.96 | 20.06 | 20.29 |       |     |
| 5 | QPSK   | 25 | 0  | 20.12 | 20.09 | 20.15 | 20.28 | 20.02 | 20.19 | 21.3  | 0   |
| 5 | 16QAM  | 1  | 0  | 20.24 | 20.13 | 20.11 | 20.38 | 20.08 | 20.19 |       |     |
| 5 | 16QAM  | 1  | 12 | 20.04 | 20.18 | 19.93 | 20.06 | 20.27 | 20.24 |       |     |
| 5 | 16QAM  | 1  | 24 | 20.13 | 20.02 | 20.13 | 20.13 | 20.14 | 20.34 | 21.3  | 0   |
| 5 | 16QAM  | 12 | 0  | 20.14 | 20.05 | 20.15 | 20.23 | 20.30 | 20.00 |       |     |
| 5 | 16QAM  | 12 | 7  | 20.12 | 20.14 | 20.16 | 20.08 | 20.08 | 20.15 |       |     |
| 5 | 16QAM  | 12 | 13 | 20.11 | 20.04 | 20.02 | 20.08 | 19.99 | 20.10 | 21.3  | 0   |
| 5 | 16QAM  | 25 | 0  | 20.03 | 19.97 | 20.01 | 20.11 | 20.16 | 20.24 |       |     |
| 5 | 64QAM  | 1  | 0  | 20.04 | 20.06 | 19.98 | 20.14 | 20.01 | 19.96 | 21.3  | 0   |
| 5 | 64QAM  | 1  | 12 | 19.96 | 19.92 | 19.82 | 20.04 | 20.03 | 20.07 |       |     |
| 5 | 64QAM  | 1  | 24 | 19.84 | 19.81 | 19.87 | 19.71 | 19.96 | 19.99 |       |     |
| 5 | 64QAM  | 12 | 0  | 19.66 | 19.66 | 19.57 | 19.59 | 19.63 | 19.65 | 21    | 0.3 |
| 5 | 64QAM  | 12 | 7  | 19.36 | 19.51 | 19.46 | 19.46 | 19.54 | 19.56 |       |     |
| 5 | 64QAM  | 12 | 13 | 19.47 | 19.60 | 19.63 | 19.59 | 19.48 | 19.51 |       |     |
| 5 | 64QAM  | 25 | 0  | 19.50 | 19.71 | 19.49 | 19.63 | 19.58 | 19.67 | 19    | 2.3 |
| 5 | 256QAM | 1  | 0  | 17.66 | 17.75 | 17.66 | 17.69 | 17.76 | 17.71 |       |     |
| 5 | 256QAM | 1  | 12 | 17.58 | 17.60 | 17.57 | 17.59 | 17.65 | 17.71 |       |     |
| 5 | 256QAM | 1  | 24 | 17.44 | 17.47 | 17.43 | 17.48 | 17.54 | 17.48 | 19    | 2.3 |
| 5 | 256QAM | 12 | 0  | 17.63 | 17.47 | 17.50 | 17.55 | 17.55 | 17.57 |       |     |
| 5 | 256QAM | 12 | 7  | 17.65 | 17.74 | 17.78 | 17.75 | 17.71 | 17.75 |       |     |
| 5 | 256QAM | 12 | 13 | 17.55 | 17.54 | 17.67 | 17.56 | 17.68 | 17.53 | 19    | 2.3 |
| 5 | 256QAM | 25 | 0  | 17.76 | 17.74 | 17.80 | 17.75 | 17.75 | 17.76 |       |     |

| Band 41 HPUE Ant3 DSI1 |            |         |           |                              |                       |                              |                          |                               |                        |                     |          |
|------------------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]               | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                |            |         |           | 39790                        | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | 22.9                | 0        |
| Frequency (MHz)        |            |         |           | 2510                         | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                     | QPSK       | 1       | 0         | 22.03                        | 21.87                 | 21.97                        | 22.11                    | 22.07                         | 21.99                  |                     |          |
| 20                     | QPSK       | 1       | 49        | 21.96                        | 21.95                 | 21.90                        | 21.96                    | 22.03                         | 21.99                  | 22.9                | 0        |
| 20                     | QPSK       | 1       | 99        | 22.06                        | 21.91                 | 21.98                        | 21.96                    | 22.06                         | 21.86                  |                     |          |
| 20                     | QPSK       | 50      | 0         | 21.94                        | 21.76                 | 21.75                        | 22.01                    | 21.75                         | 21.69                  |                     |          |
| 20                     | QPSK       | 50      | 24        | 21.79                        | 21.83                 | 21.80                        | 21.80                    | 21.81                         | 21.90                  | 22.9                | 0        |
| 20                     | QPSK       | 50      | 50        | 21.89                        | 21.85                 | 21.81                        | 21.79                    | 21.81                         | 21.91                  |                     |          |
| 20                     | QPSK       | 100     | 0         | 21.81                        | 21.97                 | 21.86                        | 21.98                    | 21.86                         | 21.90                  |                     |          |
| 20                     | 16QAM      | 1       | 0         | 22.02                        | 21.81                 | 21.89                        | 22.03                    | 21.92                         | 21.88                  | 22.9                | 0        |
| 20                     | 16QAM      | 1       | 49        | 21.77                        | 21.91                 | 21.71                        | 21.82                    | 21.94                         | 21.91                  |                     |          |
| 20                     | 16QAM      | 1       | 99        | 22.00                        | 21.80                 | 21.92                        | 21.85                    | 21.95                         | 22.00                  |                     |          |
| 20                     | 16QAM      | 50      | 0         | 21.75                        | 21.78                 | 21.88                        | 21.88                    | 21.99                         | 21.84                  | 22.9                | 0        |
| 20                     | 16QAM      | 50      | 24        | 21.87                        | 21.77                 | 21.89                        | 21.77                    | 21.76                         | 21.92                  |                     |          |
| 20                     | 16QAM      | 50      | 50        | 21.83                        | 21.81                 | 21.74                        | 21.76                    | 21.76                         | 21.81                  |                     |          |

|                 |        |     |    |        |        |        |       |        |        |                           |             |
|-----------------|--------|-----|----|--------|--------|--------|-------|--------|--------|---------------------------|-------------|
| 20              | 16QAM  | 100 | 0  | 21.77  | 21.75  | 21.75  | 21.89 | 21.91  | 21.98  |                           |             |
| 20              | 64QAM  | 1   | 0  | 21.76  | 21.83  | 21.82  | 21.83 | 21.78  | 21.72  | 22.9                      | 0           |
| 20              | 64QAM  | 1   | 49 | 21.71  | 21.71  | 21.49  | 21.74 | 21.69  | 21.78  |                           |             |
| 20              | 64QAM  | 1   | 99 | 21.65  | 21.58  | 21.70  | 21.59 | 21.74  | 21.76  |                           |             |
| 20              | 64QAM  | 50  | 0  | 21.92  | 21.79  | 21.88  | 22.00 | 22.07  | 21.80  | 22.9                      | 0           |
| 20              | 64QAM  | 50  | 24 | 21.88  | 22.00  | 21.78  | 21.87 | 21.95  | 21.82  |                           |             |
| 20              | 64QAM  | 50  | 50 | 21.95  | 21.72  | 21.78  | 21.82 | 22.04  | 21.93  |                           |             |
| 20              | 64QAM  | 100 | 0  | 21.80  | 21.69  | 21.99  | 21.87 | 21.70  | 21.87  |                           |             |
| 20              | 256QAM | 1   | 0  | 21.10  | 21.23  | 21.14  | 21.15 | 21.15  | 21.09  | 22                        | 0.9         |
| 20              | 256QAM | 1   | 49 | 21.30  | 21.20  | 21.28  | 21.24 | 21.31  | 21.30  |                           |             |
| 20              | 256QAM | 1   | 99 | 21.18  | 21.16  | 21.12  | 21.16 | 21.20  | 21.23  |                           |             |
| 20              | 256QAM | 50  | 0  | 20.90  | 21.02  | 20.95  | 20.96 | 20.94  | 20.95  | 22                        | 0.9         |
| 20              | 256QAM | 50  | 24 | 21.11  | 21.02  | 21.01  | 21.07 | 21.12  | 21.03  |                           |             |
| 20              | 256QAM | 50  | 50 | 20.91  | 20.92  | 21.00  | 20.97 | 20.94  | 21.02  |                           |             |
| 20              | 256QAM | 100 | 0  | 21.14  | 21.16  | 21.19  | 21.13 | 21.07  | 21.08  |                           |             |
| Channel         |        |     |    | 39765  | 39725  | 40173  | 40620 | 41068  | 41515  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 2507.5 | 2503.5 | 2548.3 | 2593  | 2637.8 | 2682.5 |                           |             |
| 15              | QPSK   | 1   | 0  | 21.96  | 21.85  | 21.92  | 22.02 | 22.06  | 21.93  | 22.90                     | 0           |
| 15              | QPSK   | 1   | 37 | 21.94  | 21.80  | 21.89  | 21.84 | 22.02  | 21.95  |                           |             |
| 15              | QPSK   | 1   | 74 | 21.88  | 21.75  | 21.93  | 21.96 | 21.92  | 21.81  |                           |             |
| 15              | QPSK   | 36  | 0  | 21.83  | 21.56  | 21.61  | 21.90 | 21.71  | 21.53  | 22.9                      | 0           |
| 15              | QPSK   | 36  | 20 | 21.68  | 21.65  | 21.61  | 21.76 | 21.78  | 21.81  |                           |             |
| 15              | QPSK   | 36  | 39 | 21.81  | 21.76  | 21.78  | 21.71 | 21.63  | 21.82  |                           |             |
| 15              | QPSK   | 75  | 0  | 21.65  | 21.89  | 21.75  | 21.95 | 21.78  | 21.82  |                           |             |
| 15              | 16QAM  | 1   | 0  | 21.82  | 21.71  | 21.73  | 22.01 | 21.86  | 21.72  | 22.9                      | 0           |
| 15              | 16QAM  | 1   | 37 | 21.65  | 21.85  | 21.54  | 21.76 | 21.89  | 21.77  |                           |             |
| 15              | 16QAM  | 1   | 74 | 21.98  | 21.64  | 21.86  | 21.76 | 21.83  | 21.83  |                           |             |
| 15              | 16QAM  | 36  | 0  | 21.58  | 21.73  | 21.79  | 21.69 | 21.99  | 21.64  | 22.9                      | 0           |
| 15              | 16QAM  | 36  | 20 | 21.77  | 21.58  | 21.85  | 21.58 | 21.70  | 21.87  |                           |             |
| 15              | 16QAM  | 36  | 39 | 21.75  | 21.76  | 21.62  | 21.56 | 21.70  | 21.71  |                           |             |
| 15              | 16QAM  | 75  | 0  | 21.68  | 21.63  | 21.68  | 21.84 | 21.72  | 21.87  |                           |             |
| 15              | 64QAM  | 1   | 0  | 21.73  | 21.72  | 21.67  | 21.78 | 21.73  | 21.62  | 22.9                      | 0           |
| 15              | 64QAM  | 1   | 37 | 21.57  | 21.52  | 21.38  | 21.61 | 21.49  | 21.67  |                           |             |
| 15              | 64QAM  | 1   | 74 | 21.48  | 21.52  | 21.57  | 21.47 | 21.63  | 21.76  |                           |             |
| 15              | 64QAM  | 36  | 0  | 21.82  | 21.60  | 21.83  | 21.93 | 22.05  | 21.67  | 22.9                      | 0           |
| 15              | 64QAM  | 36  | 20 | 21.68  | 21.96  | 21.72  | 21.83 | 21.83  | 21.66  |                           |             |
| 15              | 64QAM  | 36  | 39 | 21.80  | 21.60  | 21.66  | 21.76 | 22.04  | 21.86  |                           |             |
| 15              | 64QAM  | 75  | 0  | 21.80  | 21.67  | 21.83  | 21.80 | 21.70  | 21.78  |                           |             |
| 15              | 256QAM | 1   | 0  | 20.98  | 21.03  | 20.96  | 21.14 | 21.01  | 20.98  | 22                        | 0.9         |
| 15              | 256QAM | 1   | 37 | 21.20  | 21.08  | 21.21  | 21.07 | 21.13  | 21.15  |                           |             |
| 15              | 256QAM | 1   | 74 | 21.06  | 21.00  | 21.09  | 20.98 | 21.07  | 21.14  |                           |             |
| 15              | 256QAM | 36  | 0  | 20.73  | 20.90  | 20.92  | 20.94 | 20.83  | 20.93  | 22                        | 0.9         |
| 15              | 256QAM | 36  | 20 | 21.03  | 21.02  | 20.85  | 21.07 | 21.04  | 21.01  |                           |             |
| 15              | 256QAM | 36  | 39 | 20.90  | 20.88  | 20.88  | 20.92 | 20.78  | 21.02  |                           |             |
| 15              | 256QAM | 75  | 0  | 20.97  | 21.08  | 21.08  | 21.05 | 20.87  | 20.96  |                           |             |
| Channel         |        |     |    | 39740  | 39700  | 40160  | 40620 | 41080  | 41540  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 2505   | 2501   | 2547   | 2593  | 2639   | 2685   |                           |             |
| 10              | QPSK   | 1   | 0  | 21.91  | 21.71  | 21.97  | 22.00 | 21.99  | 21.87  | 22.90                     | 0           |
| 10              | QPSK   | 1   | 25 | 21.80  | 21.78  | 21.74  | 21.93 | 21.87  | 21.85  |                           |             |



|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 10              | QPSK   | 1  | 49 | 21.94  | 21.75  | 21.89  | 21.90 | 21.89   | 21.82  |                           |             |
| 10              | QPSK   | 25 | 0  | 21.83  | 21.71  | 21.67  | 22.00 | 21.74   | 21.50  | 22.9                      | 0           |
| 10              | QPSK   | 25 | 12 | 21.67  | 21.78  | 21.77  | 21.80 | 21.70   | 21.77  |                           |             |
| 10              | QPSK   | 25 | 25 | 21.76  | 21.84  | 21.77  | 21.66 | 21.72   | 21.88  |                           |             |
| 10              | QPSK   | 50 | 0  | 21.62  | 21.79  | 21.82  | 21.89 | 21.85   | 21.79  |                           |             |
| 10              | 16QAM  | 1  | 0  | 21.93  | 21.65  | 21.87  | 22.02 | 21.91   | 21.77  | 22.9                      | 0           |
| 10              | 16QAM  | 1  | 25 | 21.65  | 21.81  | 21.63  | 21.70 | 21.76   | 21.82  |                           |             |
| 10              | 16QAM  | 1  | 49 | 21.90  | 21.74  | 21.80  | 21.78 | 21.90   | 21.95  |                           |             |
| 10              | 16QAM  | 25 | 0  | 21.59  | 21.70  | 21.86  | 21.69 | 21.91   | 21.83  | 22.9                      | 0           |
| 10              | 16QAM  | 25 | 12 | 21.86  | 21.69  | 21.74  | 21.70 | 21.66   | 21.92  |                           |             |
| 10              | 16QAM  | 25 | 25 | 21.81  | 21.67  | 21.56  | 21.73 | 21.64   | 21.78  |                           |             |
| 10              | 16QAM  | 50 | 0  | 21.77  | 21.65  | 21.63  | 21.70 | 21.83   | 21.94  |                           |             |
| 10              | 64QAM  | 1  | 0  | 21.72  | 21.66  | 21.75  | 21.79 | 21.60   | 21.67  | 22.9                      | 0           |
| 10              | 64QAM  | 1  | 25 | 21.59  | 21.64  | 21.37  | 21.60 | 21.64   | 21.76  |                           |             |
| 10              | 64QAM  | 1  | 49 | 21.60  | 21.53  | 21.69  | 21.49 | 21.57   | 21.58  |                           |             |
| 10              | 64QAM  | 25 | 0  | 21.86  | 21.77  | 21.71  | 21.82 | 21.96   | 21.62  | 22.9                      | 0           |
| 10              | 64QAM  | 25 | 12 | 21.83  | 21.91  | 21.66  | 21.70 | 21.93   | 21.72  |                           |             |
| 10              | 64QAM  | 25 | 25 | 21.84  | 21.54  | 21.75  | 21.68 | 21.93   | 21.80  |                           |             |
| 10              | 64QAM  | 50 | 0  | 21.65  | 21.69  | 21.94  | 21.67 | 21.53   | 21.81  |                           |             |
| 10              | 256QAM | 1  | 0  | 20.94  | 21.11  | 21.12  | 20.97 | 20.99   | 21.02  | 22                        | 0.9         |
| 10              | 256QAM | 1  | 25 | 21.18  | 21.03  | 21.20  | 21.12 | 21.22   | 21.10  |                           |             |
| 10              | 256QAM | 1  | 49 | 21.12  | 20.97  | 21.00  | 21.12 | 21.09   | 21.13  |                           |             |
| 10              | 256QAM | 25 | 0  | 20.85  | 20.85  | 20.86  | 20.94 | 20.85   | 20.77  | 22                        | 0.9         |
| 10              | 256QAM | 25 | 12 | 20.95  | 20.93  | 20.85  | 20.92 | 20.97   | 20.84  |                           |             |
| 10              | 256QAM | 25 | 25 | 20.78  | 20.75  | 20.80  | 20.93 | 20.77   | 20.98  |                           |             |
| 10              | 256QAM | 50 | 0  | 21.04  | 20.97  | 21.06  | 21.03 | 20.89   | 21.03  |                           |             |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 21.91  | 21.68  | 21.86  | 21.96 | 21.97   | 21.95  | 22.90                     | 0           |
| 5               | QPSK   | 1  | 12 | 21.83  | 21.76  | 21.83  | 21.88 | 22.02   | 21.96  |                           |             |
| 5               | QPSK   | 1  | 24 | 21.98  | 21.78  | 21.88  | 21.78 | 21.93   | 21.66  |                           |             |
| 5               | QPSK   | 12 | 0  | 21.74  | 21.58  | 21.62  | 21.82 | 21.75   | 21.65  | 22.9                      | 0           |
| 5               | QPSK   | 12 | 7  | 21.60  | 21.74  | 21.61  | 21.76 | 21.75   | 21.75  |                           |             |
| 5               | QPSK   | 12 | 13 | 21.89  | 21.71  | 21.76  | 21.66 | 21.63   | 21.81  |                           |             |
| 5               | QPSK   | 25 | 0  | 21.75  | 21.88  | 21.85  | 21.80 | 21.69   | 21.84  |                           |             |
| 5               | 16QAM  | 1  | 0  | 21.94  | 21.80  | 21.73  | 21.96 | 21.82   | 21.84  | 22.9                      | 0           |
| 5               | 16QAM  | 1  | 12 | 21.60  | 21.83  | 21.60  | 21.81 | 21.92   | 21.87  |                           |             |
| 5               | 16QAM  | 1  | 24 | 21.83  | 21.78  | 21.80  | 21.81 | 21.92   | 21.81  |                           |             |
| 5               | 16QAM  | 12 | 0  | 21.69  | 21.76  | 21.71  | 21.84 | 21.92   | 21.67  | 22.9                      | 0           |
| 5               | 16QAM  | 12 | 7  | 21.68  | 21.62  | 21.76  | 21.71 | 21.75   | 21.83  |                           |             |
| 5               | 16QAM  | 12 | 13 | 21.76  | 21.73  | 21.70  | 21.57 | 21.61   | 21.76  |                           |             |
| 5               | 16QAM  | 25 | 0  | 21.75  | 21.70  | 21.66  | 21.73 | 21.81   | 21.83  |                           |             |
| 5               | 64QAM  | 1  | 0  | 21.65  | 21.67  | 21.80  | 21.63 | 21.61   | 21.66  | 22.9                      | 0           |
| 5               | 64QAM  | 1  | 12 | 21.64  | 21.67  | 21.33  | 21.65 | 21.65   | 21.72  |                           |             |
| 5               | 64QAM  | 1  | 24 | 21.48  | 21.53  | 21.65  | 21.44 | 21.67   | 21.63  |                           |             |
| 5               | 64QAM  | 12 | 0  | 21.90  | 21.69  | 21.78  | 21.92 | 22.05   | 21.61  | 22.9                      | 0           |
| 5               | 64QAM  | 12 | 7  | 21.74  | 21.87  | 21.63  | 21.68 | 21.86   | 21.62  |                           |             |
| 5               | 64QAM  | 12 | 13 | 21.83  | 21.55  | 21.65  | 21.66 | 21.90   | 21.92  |                           |             |
| 5               | 64QAM  | 25 | 0  | 21.71  | 21.57  | 21.80  | 21.80 | 21.57   | 21.72  |                           |             |



|   |        |    |    |       |       |       |       |       |       |    |     |
|---|--------|----|----|-------|-------|-------|-------|-------|-------|----|-----|
| 5 | 256QAM | 1  | 0  | 21.01 | 21.16 | 20.94 | 20.97 | 21.04 | 21.04 | 22 | 0.9 |
| 5 | 256QAM | 1  | 12 | 21.13 | 21.08 | 21.23 | 21.14 | 21.22 | 21.26 |    |     |
| 5 | 256QAM | 1  | 24 | 21.03 | 21.15 | 21.00 | 21.14 | 21.03 | 21.07 |    |     |
| 5 | 256QAM | 12 | 0  | 20.87 | 20.97 | 20.82 | 20.79 | 20.89 | 20.78 | 22 | 0.9 |
| 5 | 256QAM | 12 | 7  | 20.94 | 20.96 | 20.86 | 20.97 | 20.99 | 20.94 |    |     |
| 5 | 256QAM | 12 | 13 | 20.86 | 20.80 | 20.93 | 20.93 | 20.88 | 20.88 |    |     |
| 5 | 256QAM | 25 | 0  | 20.98 | 21.02 | 21.09 | 21.03 | 20.90 | 20.93 |    |     |

| Band 48 Ant4 DSI1 |            |         |           |                       |                              |                               |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |  |  |
| 20                | QPSK       | 1       | 0         | 21.79                 | 21.90                        | 21.86                         | 21.85                  | 23                  | 0        |  |  |
| 20                | QPSK       | 1       | 49        | 21.81                 | 21.82                        | 21.84                         | 21.77                  |                     |          |  |  |
| 20                | QPSK       | 1       | 99        | 21.79                 | 21.81                        | 21.76                         | 21.74                  |                     |          |  |  |
| 20                | QPSK       | 50      | 0         | 20.97                 | 21.13                        | 20.86                         | 20.99                  | 22                  | 1        |  |  |
| 20                | QPSK       | 50      | 24        | 21.00                 | 20.96                        | 21.00                         | 20.97                  |                     |          |  |  |
| 20                | QPSK       | 50      | 50        | 20.95                 | 20.96                        | 21.02                         | 20.92                  |                     |          |  |  |
| 20                | QPSK       | 100     | 0         | 20.90                 | 21.07                        | 21.02                         | 20.93                  |                     |          |  |  |
| 20                | 16QAM      | 1       | 0         | 20.80                 | 20.73                        | 20.69                         | 20.78                  | 22                  | 1        |  |  |
| 20                | 16QAM      | 1       | 49        | 20.77                 | 20.75                        | 20.70                         | 20.68                  |                     |          |  |  |
| 20                | 16QAM      | 1       | 99        | 20.70                 | 20.73                        | 20.70                         | 20.65                  |                     |          |  |  |
| 20                | 16QAM      | 50      | 0         | 19.82                 | 19.80                        | 19.83                         | 19.85                  | 21                  | 2        |  |  |
| 20                | 16QAM      | 50      | 24        | 19.92                 | 19.97                        | 19.93                         | 19.97                  |                     |          |  |  |
| 20                | 16QAM      | 50      | 50        | 20.01                 | 19.99                        | 19.96                         | 19.94                  |                     |          |  |  |
| 20                | 16QAM      | 100     | 0         | 19.88                 | 19.94                        | 19.97                         | 19.96                  |                     |          |  |  |
| 20                | 64QAM      | 1       | 0         | 19.74                 | 19.69                        | 19.71                         | 19.77                  | 21                  | 2        |  |  |
| 20                | 64QAM      | 1       | 49        | 19.65                 | 19.66                        | 19.67                         | 19.64                  |                     |          |  |  |
| 20                | 64QAM      | 1       | 99        | 19.71                 | 19.64                        | 19.66                         | 19.64                  |                     |          |  |  |
| 20                | 64QAM      | 50      | 0         | 19.02                 | 18.95                        | 19.02                         | 18.99                  | 20                  | 3        |  |  |
| 20                | 64QAM      | 50      | 24        | 18.78                 | 18.74                        | 18.72                         | 18.80                  |                     |          |  |  |
| 20                | 64QAM      | 50      | 50        | 19.02                 | 18.95                        | 18.96                         | 18.90                  |                     |          |  |  |
| 20                | 64QAM      | 100     | 0         | 18.88                 | 18.82                        | 18.86                         | 18.83                  |                     |          |  |  |
| 20                | 256QAM     | 1       | 0         | 16.72                 | 16.79                        | 16.75                         | 16.76                  | 18                  | 5        |  |  |
| 20                | 256QAM     | 1       | 49        | 16.79                 | 16.72                        | 16.69                         | 16.65                  |                     |          |  |  |
| 20                | 256QAM     | 1       | 99        | 16.70                 | 16.72                        | 16.70                         | 16.71                  |                     |          |  |  |
| 20                | 256QAM     | 50      | 0         | 17.02                 | 17.02                        | 17.09                         | 17.06                  | 18                  | 5        |  |  |
| 20                | 256QAM     | 50      | 24        | 16.97                 | 17.02                        | 17.05                         | 16.94                  |                     |          |  |  |
| 20                | 256QAM     | 50      | 50        | 16.79                 | 16.80                        | 16.81                         | 16.73                  |                     |          |  |  |
| 20                | 256QAM     | 100     | 0         | 16.97                 | 16.92                        | 16.98                         | 16.91                  |                     |          |  |  |
| Channel           |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |  |  |
| 15                | QPSK       | 1       | 0         | 21.62                 | 21.79                        | 21.71                         | 21.69                  | 23                  | 0        |  |  |
| 15                | QPSK       | 1       | 37        | 21.77                 | 21.73                        | 21.66                         | 21.64                  |                     |          |  |  |
| 15                | QPSK       | 1       | 74        | 21.72                 | 21.74                        | 21.71                         | 21.70                  |                     |          |  |  |
| 15                | QPSK       | 36      | 0         | 20.80                 | 20.75                        | 20.80                         | 20.84                  | 22                  | 1        |  |  |



|                 |        |    |    |       |        |        |       |                        |             |
|-----------------|--------|----|----|-------|--------|--------|-------|------------------------|-------------|
| 15              | QPSK   | 36 | 20 | 20.91 | 20.88  | 20.84  | 20.94 |                        |             |
| 15              | QPSK   | 36 | 39 | 20.87 | 20.90  | 20.99  | 20.82 |                        |             |
| 15              | QPSK   | 75 | 0  | 20.81 | 20.89  | 20.89  | 20.81 |                        |             |
| 15              | 16QAM  | 1  | 0  | 20.72 | 20.66  | 20.60  | 20.64 | 22                     | 1           |
| 15              | 16QAM  | 1  | 37 | 20.63 | 20.66  | 20.58  | 20.60 |                        |             |
| 15              | 16QAM  | 1  | 74 | 20.61 | 20.60  | 20.64  | 20.65 |                        |             |
| 15              | 16QAM  | 36 | 0  | 19.65 | 19.73  | 19.67  | 19.81 | 21                     | 2           |
| 15              | 16QAM  | 36 | 20 | 19.78 | 19.95  | 19.83  | 19.82 |                        |             |
| 15              | 16QAM  | 36 | 39 | 19.91 | 19.92  | 19.80  | 19.90 |                        |             |
| 15              | 16QAM  | 75 | 0  | 19.76 | 19.91  | 19.81  | 19.85 | 21                     | 2           |
| 15              | 64QAM  | 1  | 0  | 19.59 | 19.52  | 19.58  | 19.61 |                        |             |
| 15              | 64QAM  | 1  | 37 | 19.67 | 19.66  | 19.54  | 19.56 |                        |             |
| 15              | 64QAM  | 1  | 74 | 19.56 | 19.52  | 19.54  | 19.51 | 20                     | 3           |
| 15              | 64QAM  | 36 | 0  | 18.98 | 18.81  | 18.98  | 18.90 |                        |             |
| 15              | 64QAM  | 36 | 20 | 18.69 | 18.58  | 18.57  | 18.63 |                        |             |
| 15              | 64QAM  | 36 | 39 | 18.84 | 18.91  | 18.89  | 18.86 | 18                     | 5           |
| 15              | 64QAM  | 75 | 0  | 18.76 | 18.74  | 18.78  | 18.71 |                        |             |
| 15              | 256QAM | 1  | 0  | 16.56 | 16.61  | 16.66  | 16.71 |                        |             |
| 15              | 256QAM | 1  | 37 | 16.70 | 16.63  | 16.53  | 16.55 | 18                     | 5           |
| 15              | 256QAM | 1  | 74 | 16.67 | 16.69  | 16.58  | 16.59 |                        |             |
| 15              | 256QAM | 36 | 0  | 16.86 | 16.94  | 16.98  | 16.91 |                        |             |
| 15              | 256QAM | 36 | 20 | 16.82 | 16.84  | 16.99  | 16.86 | 18                     | 5           |
| 15              | 256QAM | 36 | 39 | 16.63 | 16.75  | 16.79  | 16.57 |                        |             |
| 15              | 256QAM | 75 | 0  | 16.81 | 16.85  | 16.84  | 16.78 |                        |             |
| Channel         |        |    |    | 55290 | 55815  | 56165  | 56690 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3555  | 3607.5 | 3642.5 | 3695  |                        |             |
| 10              | QPSK   | 1  | 0  | 21.66 | 21.83  | 21.82  | 21.67 | 23                     | 0           |
| 10              | QPSK   | 1  | 25 | 21.71 | 21.71  | 21.71  | 21.64 |                        |             |
| 10              | QPSK   | 1  | 49 | 21.74 | 21.77  | 21.69  | 21.65 |                        |             |
| 10              | QPSK   | 25 | 0  | 20.81 | 20.84  | 20.84  | 20.97 | 22                     | 1           |
| 10              | QPSK   | 25 | 12 | 20.90 | 20.83  | 20.87  | 20.90 |                        |             |
| 10              | QPSK   | 25 | 25 | 20.79 | 20.85  | 20.96  | 20.76 |                        |             |
| 10              | QPSK   | 50 | 0  | 20.74 | 20.94  | 20.95  | 20.80 | 22                     | 1           |
| 10              | 16QAM  | 1  | 0  | 20.71 | 20.56  | 20.53  | 20.66 |                        |             |
| 10              | 16QAM  | 1  | 25 | 20.70 | 20.58  | 20.63  | 20.62 |                        |             |
| 10              | 16QAM  | 1  | 49 | 20.65 | 20.64  | 20.63  | 20.61 | 21                     | 2           |
| 10              | 16QAM  | 25 | 0  | 19.73 | 19.73  | 19.73  | 19.81 |                        |             |
| 10              | 16QAM  | 25 | 12 | 19.89 | 19.81  | 19.82  | 19.89 |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.89 | 19.94  | 19.80  | 19.91 | 21                     | 2           |
| 10              | 16QAM  | 50 | 0  | 19.72 | 19.91  | 19.89  | 19.84 |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.67 | 19.53  | 19.67  | 19.60 |                        |             |
| 10              | 64QAM  | 1  | 25 | 19.59 | 19.56  | 19.51  | 19.62 | 20                     | 3           |
| 10              | 64QAM  | 1  | 49 | 19.67 | 19.53  | 19.55  | 19.65 |                        |             |
| 10              | 64QAM  | 25 | 0  | 18.99 | 18.86  | 18.88  | 18.93 |                        |             |
| 10              | 64QAM  | 25 | 12 | 18.69 | 18.66  | 18.63  | 18.73 | 18                     | 5           |
| 10              | 64QAM  | 25 | 25 | 18.88 | 18.80  | 18.89  | 18.83 |                        |             |
| 10              | 64QAM  | 50 | 0  | 18.84 | 18.68  | 18.71  | 18.75 |                        |             |
| 10              | 256QAM | 1  | 0  | 16.66 | 16.61  | 16.64  | 16.66 | 18                     | 5           |
| 10              | 256QAM | 1  | 25 | 16.77 | 16.67  | 16.58  | 16.50 |                        |             |



|                 |        |    |    |        |       |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|-------|--------|------------------------|-------------|
| 10              | 256QAM | 1  | 49 | 16.52  | 16.57 | 16.58 | 16.54  |                        |             |
| 10              | 256QAM | 25 | 0  | 16.91  | 16.88 | 17.02 | 17.03  | 18                     | 5           |
| 10              | 256QAM | 25 | 12 | 16.95  | 16.92 | 16.90 | 16.89  |                        |             |
| 10              | 256QAM | 25 | 25 | 16.70  | 16.76 | 16.66 | 16.62  |                        |             |
| 10              | 256QAM | 50 | 0  | 16.91  | 16.83 | 16.95 | 16.87  |                        |             |
| Channel         |        |    |    | 55265  | 55810 | 56170 | 56715  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607  | 3643  | 3697.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 21.68  | 21.77 | 21.79 | 21.78  | 23                     | 0           |
| 5               | QPSK   | 1  | 12 | 21.73  | 21.66 | 21.68 | 21.72  |                        |             |
| 5               | QPSK   | 1  | 24 | 21.65  | 21.72 | 21.74 | 21.57  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.86  | 20.82 | 20.78 | 20.94  | 22                     | 1           |
| 5               | QPSK   | 12 | 7  | 20.89  | 20.88 | 20.98 | 20.90  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.77  | 20.81 | 20.84 | 20.81  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.84  | 20.81 | 20.89 | 20.90  |                        |             |
| 5               | 16QAM  | 1  | 0  | 20.72  | 20.70 | 20.54 | 20.75  | 22                     | 1           |
| 5               | 16QAM  | 1  | 12 | 20.60  | 20.63 | 20.56 | 20.52  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.53  | 20.64 | 20.67 | 20.55  |                        |             |
| 5               | 16QAM  | 12 | 0  | 19.69  | 19.64 | 19.67 | 19.72  | 21                     | 2           |
| 5               | 16QAM  | 12 | 7  | 19.86  | 19.85 | 19.83 | 19.82  |                        |             |
| 5               | 16QAM  | 12 | 13 | 19.97  | 19.83 | 19.91 | 19.79  |                        |             |
| 5               | 16QAM  | 25 | 0  | 19.76  | 19.79 | 19.91 | 19.93  |                        |             |
| 5               | 64QAM  | 1  | 0  | 19.59  | 19.64 | 19.65 | 19.64  | 21                     | 2           |
| 5               | 64QAM  | 1  | 12 | 19.50  | 19.53 | 19.59 | 19.52  |                        |             |
| 5               | 64QAM  | 1  | 24 | 19.56  | 19.51 | 19.56 | 19.76  |                        |             |
| 5               | 64QAM  | 12 | 0  | 18.93  | 18.87 | 18.90 | 18.85  | 20                     | 3           |
| 5               | 64QAM  | 12 | 7  | 18.65  | 18.71 | 18.63 | 18.75  |                        |             |
| 5               | 64QAM  | 12 | 13 | 18.89  | 18.81 | 18.83 | 18.80  |                        |             |
| 5               | 64QAM  | 25 | 0  | 18.77  | 18.75 | 18.71 | 18.75  |                        |             |
| 5               | 256QAM | 1  | 0  | 16.67  | 16.65 | 16.73 | 16.58  | 18                     | 5           |
| 5               | 256QAM | 1  | 12 | 16.75  | 16.61 | 16.58 | 16.57  |                        |             |
| 5               | 256QAM | 1  | 24 | 16.63  | 16.56 | 16.65 | 16.55  |                        |             |
| 5               | 256QAM | 12 | 0  | 16.96  | 16.99 | 17.00 | 17.02  | 18                     | 5           |
| 5               | 256QAM | 12 | 7  | 16.94  | 16.89 | 16.97 | 16.89  |                        |             |
| 5               | 256QAM | 12 | 13 | 16.69  | 16.66 | 16.78 | 16.63  |                        |             |
| 5               | 256QAM | 25 | 0  | 16.83  | 16.76 | 16.81 | 16.76  |                        |             |

### Reduced Power Mode for DSI 2

#### Band 38 Ant3 DSI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 17.41                 | 17.52                    | 17.46                  | 18.7                | 0        |
| 20              | QPSK       | 1       | 49        | 17.40                 | 17.41                    | 17.46                  |                     |          |
| 20              | QPSK       | 1       | 99        | 17.27                 | 17.43                    | 17.33                  |                     |          |
| 20              | QPSK       | 50      | 0         | 17.35                 | 17.36                    | 17.33                  | 18.7                | 0        |
| 20              | QPSK       | 50      | 24        | 17.28                 | 17.28                    | 17.30                  |                     |          |
| 20              | QPSK       | 50      | 50        | 17.00                 | 17.14                    | 17.08                  |                     |          |
| 20              | QPSK       | 100     | 0         | 17.17                 | 17.38                    | 17.27                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 17.32                 | 17.31                    | 17.28                  | 18.7                | 0        |
| 20              | 16QAM      | 1       | 49        | 17.09                 | 17.27                    | 17.21                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 17.32                 | 17.43                    | 17.25                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 17.20                 | 17.39                    | 17.14                  | 18.7                | 0        |
| 20              | 16QAM      | 50      | 24        | 17.18                 | 17.30                    | 17.21                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 17.41                 | 17.42                    | 17.21                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 17.23                 | 17.34                    | 17.16                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 17.16                 | 17.29                    | 17.20                  | 18.7                | 0        |
| 20              | 64QAM      | 1       | 49        | 17.23                 | 17.36                    | 17.35                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 17.18                 | 17.35                    | 17.15                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 17.22                 | 17.30                    | 17.11                  | 18.7                | 0        |
| 20              | 64QAM      | 50      | 24        | 17.21                 | 17.28                    | 17.19                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 17.12                 | 17.17                    | 17.03                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 17.23                 | 17.38                    | 17.19                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 17.15                 | 17.20                    | 17.15                  | 18.7                | 0        |
| 20              | 256QAM     | 1       | 49        | 17.06                 | 17.27                    | 16.98                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 17.18                 | 17.29                    | 17.21                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 17.10                 | 17.14                    | 17.18                  | 18.7                | 0        |
| 20              | 256QAM     | 50      | 24        | 17.20                 | 17.09                    | 17.01                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 17.17                 | 17.26                    | 17.30                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.15                 | 17.15                    | 17.05                  |                     |          |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 17.32                 | 17.48                    | 17.32                  | 18.7                | 0        |
| 15              | QPSK       | 1       | 37        | 17.36                 | 17.31                    | 17.33                  |                     |          |
| 15              | QPSK       | 1       | 74        | 17.23                 | 17.35                    | 17.18                  |                     |          |
| 15              | QPSK       | 36      | 0         | 17.22                 | 17.27                    | 17.24                  | 18.7                | 0        |
| 15              | QPSK       | 36      | 20        | 17.23                 | 17.15                    | 17.14                  |                     |          |
| 15              | QPSK       | 36      | 39        | 16.92                 | 16.98                    | 16.94                  |                     |          |
| 15              | QPSK       | 75      | 0         | 17.10                 | 17.25                    | 17.13                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 17.25                 | 17.27                    | 17.24                  | 18.7                | 0        |
| 15              | 16QAM      | 1       | 37        | 17.02                 | 17.22                    | 17.07                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 17.22                 | 17.35                    | 17.19                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 17.16                 | 17.33                    | 17.08                  | 18.7                | 0        |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 17.10  | 17.23 | 17.16  |                        |             |
| 15              | 16QAM  | 36 | 39 | 17.34  | 17.37 | 17.14  |                        |             |
| 15              | 16QAM  | 75 | 0  | 17.19  | 17.21 | 17.10  |                        |             |
| 15              | 64QAM  | 1  | 0  | 17.04  | 17.17 | 17.13  | 18.7                   | 0           |
| 15              | 64QAM  | 1  | 37 | 17.12  | 17.25 | 17.30  |                        |             |
| 15              | 64QAM  | 1  | 74 | 17.03  | 17.30 | 17.03  |                        |             |
| 15              | 64QAM  | 36 | 0  | 17.16  | 17.25 | 17.07  | 18.7                   | 0           |
| 15              | 64QAM  | 36 | 20 | 17.09  | 17.21 | 17.06  |                        |             |
| 15              | 64QAM  | 36 | 39 | 17.07  | 17.05 | 16.92  |                        |             |
| 15              | 64QAM  | 75 | 0  | 17.08  | 17.33 | 17.15  | 18.7                   | 0           |
| 15              | 256QAM | 1  | 0  | 17.14  | 17.22 | 17.03  |                        |             |
| 15              | 256QAM | 1  | 37 | 17.00  | 17.12 | 17.01  |                        |             |
| 15              | 256QAM | 1  | 74 | 17.11  | 17.24 | 17.13  | 18.7                   | 0           |
| 15              | 256QAM | 36 | 0  | 17.15  | 17.01 | 17.10  |                        |             |
| 15              | 256QAM | 36 | 20 | 17.07  | 17.00 | 16.96  |                        |             |
| 15              | 256QAM | 36 | 39 | 17.02  | 17.13 | 17.24  | 18.7                   | 0           |
| 15              | 256QAM | 75 | 0  | 16.93  | 17.09 | 16.88  |                        |             |
| Channel         |        |    |    | 37800  | 38000 | 38200  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |             |
| 10              | QPSK   | 1  | 0  | 17.31  | 17.42 | 17.36  | 18.7                   | 0           |
| 10              | QPSK   | 1  | 25 | 17.27  | 17.33 | 17.37  |                        |             |
| 10              | QPSK   | 1  | 49 | 17.16  | 17.29 | 17.25  |                        |             |
| 10              | QPSK   | 25 | 0  | 17.21  | 17.24 | 17.19  | 18.7                   | 0           |
| 10              | QPSK   | 25 | 12 | 17.16  | 17.22 | 17.23  |                        |             |
| 10              | QPSK   | 25 | 25 | 16.96  | 17.04 | 16.97  |                        |             |
| 10              | QPSK   | 50 | 0  | 17.13  | 17.30 | 17.20  | 18.7                   | 0           |
| 10              | 16QAM  | 1  | 0  | 17.25  | 17.21 | 17.16  |                        |             |
| 10              | 16QAM  | 1  | 25 | 16.96  | 17.23 | 17.07  |                        |             |
| 10              | 16QAM  | 1  | 49 | 17.16  | 17.34 | 17.15  | 18.7                   | 0           |
| 10              | 16QAM  | 25 | 0  | 17.13  | 17.30 | 17.00  |                        |             |
| 10              | 16QAM  | 25 | 12 | 17.07  | 17.15 | 17.08  |                        |             |
| 10              | 16QAM  | 25 | 25 | 17.35  | 17.34 | 17.09  | 18.7                   | 0           |
| 10              | 16QAM  | 50 | 0  | 17.13  | 17.27 | 17.09  |                        |             |
| 10              | 64QAM  | 1  | 0  | 17.05  | 17.13 | 17.10  |                        |             |
| 10              | 64QAM  | 1  | 25 | 17.11  | 17.28 | 17.26  | 18.7                   | 0           |
| 10              | 64QAM  | 1  | 49 | 17.06  | 17.22 | 17.11  |                        |             |
| 10              | 64QAM  | 25 | 0  | 17.15  | 17.23 | 17.04  |                        |             |
| 10              | 64QAM  | 25 | 12 | 17.14  | 17.17 | 17.11  | 18.7                   | 0           |
| 10              | 64QAM  | 25 | 25 | 17.04  | 17.06 | 16.90  |                        |             |
| 10              | 64QAM  | 50 | 0  | 17.16  | 17.23 | 17.04  |                        |             |
| 10              | 256QAM | 1  | 0  | 17.08  | 17.15 | 17.04  | 18.7                   | 0           |
| 10              | 256QAM | 1  | 25 | 17.03  | 17.23 | 16.95  |                        |             |
| 10              | 256QAM | 1  | 49 | 17.07  | 17.21 | 17.14  |                        |             |
| 10              | 256QAM | 25 | 0  | 17.08  | 17.04 | 17.12  | 18.7                   | 0           |
| 10              | 256QAM | 25 | 12 | 17.06  | 17.05 | 16.88  |                        |             |
| 10              | 256QAM | 25 | 25 | 16.93  | 17.15 | 17.24  |                        |             |
| 10              | 256QAM | 50 | 0  | 16.96  | 17.01 | 16.91  | 18.7                   | 0           |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |             |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 | Tune-up limit<br>(dBm) | MPR<br>(dB) |

|   |        |    |    |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|------|---|
| 5 | QPSK   | 1  | 0  | 17.35 | 17.45 | 17.40 | 18.7 | 0 |
| 5 | QPSK   | 1  | 12 | 17.34 | 17.31 | 17.34 |      |   |
| 5 | QPSK   | 1  | 24 | 17.15 | 17.36 | 17.28 |      |   |
| 5 | QPSK   | 12 | 0  | 17.28 | 17.28 | 17.26 | 18.7 | 0 |
| 5 | QPSK   | 12 | 7  | 17.16 | 17.13 | 17.21 |      |   |
| 5 | QPSK   | 12 | 13 | 16.95 | 16.98 | 16.96 |      |   |
| 5 | QPSK   | 25 | 0  | 17.11 | 17.32 | 17.12 |      |   |
| 5 | 16QAM  | 1  | 0  | 17.20 | 17.22 | 17.18 | 18.7 | 0 |
| 5 | 16QAM  | 1  | 12 | 17.01 | 17.18 | 17.11 |      |   |
| 5 | 16QAM  | 1  | 24 | 17.16 | 17.33 | 17.21 |      |   |
| 5 | 16QAM  | 12 | 0  | 17.10 | 17.31 | 17.00 | 18.7 | 0 |
| 5 | 16QAM  | 12 | 7  | 17.04 | 17.23 | 17.06 |      |   |
| 5 | 16QAM  | 12 | 13 | 17.37 | 17.32 | 17.15 |      |   |
| 5 | 16QAM  | 25 | 0  | 17.13 | 17.27 | 17.00 |      |   |
| 5 | 64QAM  | 1  | 0  | 17.03 | 17.18 | 17.15 | 18.7 | 0 |
| 5 | 64QAM  | 1  | 12 | 17.14 | 17.25 | 17.21 |      |   |
| 5 | 64QAM  | 1  | 24 | 17.02 | 17.27 | 17.00 |      |   |
| 5 | 64QAM  | 12 | 0  | 17.09 | 17.19 | 17.04 | 18.7 | 0 |
| 5 | 64QAM  | 12 | 7  | 17.14 | 17.18 | 17.04 |      |   |
| 5 | 64QAM  | 12 | 13 | 17.05 | 17.12 | 16.88 |      |   |
| 5 | 64QAM  | 25 | 0  | 17.13 | 17.29 | 17.14 |      |   |
| 5 | 256QAM | 1  | 0  | 17.10 | 17.22 | 17.14 | 18.7 | 0 |
| 5 | 256QAM | 1  | 12 | 17.06 | 17.14 | 16.95 |      |   |
| 5 | 256QAM | 1  | 24 | 17.07 | 17.20 | 17.12 |      |   |
| 5 | 256QAM | 12 | 0  | 17.11 | 16.99 | 17.03 | 18.7 | 0 |
| 5 | 256QAM | 12 | 7  | 16.99 | 16.99 | 16.97 |      |   |
| 5 | 256QAM | 12 | 13 | 16.97 | 17.17 | 17.16 |      |   |
| 5 | 256QAM | 25 | 0  | 16.93 | 17.10 | 16.89 |      |   |

| Band 41 Ant3 DSI2 |            |         |           |                                       |                             |                                    |                                |                                     |                              |                           |             |
|-------------------|------------|---------|-----------|---------------------------------------|-----------------------------|------------------------------------|--------------------------------|-------------------------------------|------------------------------|---------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | for IC<br>Power<br>Low<br>Ch. / Freq. | Power<br>Low<br>Ch. / Freq. | Power<br>Low Middle<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 39790                                 | 39750                       | 40185                              | 40620                          | 41055                               | 41490                        | 18.7                      | 0           |
| Frequency (MHz)   |            |         |           | 2510                                  | 2506                        | 2549.5                             | 2593                           | 2636.5                              | 2680                         |                           |             |
| 20                | QPSK       | 1       | 0         | 17.42                                 | 17.41                       | 17.45                              | 17.61                          | 17.52                               | 17.40                        |                           |             |
| 20                | QPSK       | 1       | 49        | 17.42                                 | 17.44                       | 17.53                              | 17.53                          | 17.51                               | 17.42                        | 18.7                      | 0           |
| 20                | QPSK       | 1       | 99        | 17.36                                 | 17.31                       | 17.39                              | 17.49                          | 17.41                               | 17.34                        |                           |             |
| 20                | QPSK       | 50      | 0         | 17.29                                 | 17.28                       | 17.43                              | 17.46                          | 17.37                               | 17.28                        |                           |             |
| 20                | QPSK       | 50      | 24        | 17.29                                 | 17.34                       | 17.36                              | 17.43                          | 17.43                               | 17.30                        |                           |             |
| 20                | QPSK       | 50      | 50        | 17.00                                 | 17.02                       | 17.12                              | 17.28                          | 17.12                               | 17.02                        | 18.7                      | 0           |
| 20                | QPSK       | 100     | 0         | 17.22                                 | 17.21                       | 17.29                              | 17.51                          | 17.32                               | 17.17                        |                           |             |
| 20                | 16QAM      | 1       | 0         | 17.22                                 | 17.23                       | 17.45                              | 17.45                          | 17.35                               | 17.29                        |                           |             |
| 20                | 16QAM      | 1       | 49        | 17.19                                 | 17.12                       | 17.24                              | 17.33                          | 17.25                               | 17.17                        | 18.7                      | 0           |
| 20                | 16QAM      | 1       | 99        | 17.34                                 | 17.27                       | 17.44                              | 17.54                          | 17.40                               | 17.30                        |                           |             |
| 20                | 16QAM      | 50      | 0         | 17.16                                 | 17.23                       | 17.29                              | 17.48                          | 17.28                               | 17.24                        |                           |             |
| 20                | 16QAM      | 50      | 24        | 17.15                                 | 17.22                       | 17.26                              | 17.37                          | 17.26                               | 17.13                        | 18.7                      | 0           |
| 20                | 16QAM      | 50      | 50        | 17.22                                 | 17.30                       | 17.46                              | 17.47                          | 17.35                               | 17.22                        |                           |             |

|                 |        |     |    |        |        |        |       |        |        |                           |             |
|-----------------|--------|-----|----|--------|--------|--------|-------|--------|--------|---------------------------|-------------|
| 20              | 16QAM  | 100 | 0  | 17.11  | 17.10  | 17.30  | 17.46 | 17.23  | 17.11  |                           |             |
| 20              | 64QAM  | 1   | 0  | 17.13  | 17.20  | 17.31  | 17.36 | 17.27  | 17.11  | 18.7                      | 0           |
| 20              | 64QAM  | 1   | 49 | 17.39  | 17.41  | 17.37  | 17.49 | 17.45  | 17.32  |                           |             |
| 20              | 64QAM  | 1   | 99 | 17.18  | 17.20  | 17.32  | 17.40 | 17.27  | 17.17  |                           |             |
| 20              | 64QAM  | 50  | 0  | 17.11  | 17.08  | 17.27  | 17.40 | 17.23  | 17.19  | 18.7                      | 0           |
| 20              | 64QAM  | 50  | 24 | 17.16  | 17.18  | 17.32  | 17.37 | 17.23  | 17.10  |                           |             |
| 20              | 64QAM  | 50  | 50 | 17.11  | 17.08  | 17.20  | 17.24 | 17.15  | 17.03  |                           |             |
| 20              | 64QAM  | 100 | 0  | 17.15  | 17.17  | 17.31  | 17.45 | 17.30  | 17.19  |                           |             |
| 20              | 256QAM | 1   | 0  | 17.20  | 17.16  | 17.27  | 17.32 | 17.27  | 17.12  | 18.7                      | 0           |
| 20              | 256QAM | 1   | 49 | 17.06  | 17.00  | 17.20  | 17.32 | 17.14  | 17.00  |                           |             |
| 20              | 256QAM | 1   | 99 | 17.20  | 17.14  | 17.27  | 17.44 | 17.29  | 17.13  |                           |             |
| 20              | 256QAM | 50  | 0  | 17.13  | 17.12  | 17.26  | 17.24 | 17.24  | 17.19  | 18.7                      | 0           |
| 20              | 256QAM | 50  | 24 | 16.96  | 17.03  | 17.24  | 17.21 | 17.09  | 16.96  |                           |             |
| 20              | 256QAM | 50  | 50 | 17.31  | 17.29  | 17.25  | 17.41 | 17.37  | 17.26  |                           |             |
| 20              | 256QAM | 100 | 0  | 17.03  | 17.14  | 17.20  | 17.27 | 17.18  | 17.07  |                           |             |
| Channel         |        |     |    | 39765  | 39725  | 40173  | 40620 | 41068  | 41515  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 2507.5 | 2503.5 | 2548.3 | 2593  | 2637.8 | 2682.5 |                           |             |
| 15              | QPSK   | 1   | 0  | 17.36  | 17.31  | 17.38  | 17.51 | 17.37  | 17.32  | 18.70                     | 0           |
| 15              | QPSK   | 1   | 37 | 17.28  | 17.32  | 17.48  | 17.39 | 17.44  | 17.35  |                           |             |
| 15              | QPSK   | 1   | 74 | 17.25  | 17.25  | 17.23  | 17.33 | 17.31  | 17.21  |                           |             |
| 15              | QPSK   | 36  | 0  | 17.18  | 17.16  | 17.37  | 17.31 | 17.24  | 17.18  | 18.7                      | 0           |
| 15              | QPSK   | 36  | 20 | 17.20  | 17.23  | 17.22  | 17.36 | 17.30  | 17.16  |                           |             |
| 15              | QPSK   | 36  | 39 | 16.94  | 16.94  | 17.04  | 17.19 | 16.96  | 16.87  |                           |             |
| 15              | QPSK   | 75  | 0  | 17.15  | 17.16  | 17.16  | 17.36 | 17.18  | 17.02  |                           |             |
| 15              | 16QAM  | 1   | 0  | 17.15  | 17.18  | 17.40  | 17.39 | 17.24  | 17.18  | 18.7                      | 0           |
| 15              | 16QAM  | 1   | 37 | 17.13  | 17.01  | 17.09  | 17.28 | 17.14  | 17.04  |                           |             |
| 15              | 16QAM  | 1   | 74 | 17.19  | 17.19  | 17.36  | 17.38 | 17.30  | 17.18  |                           |             |
| 15              | 16QAM  | 36  | 0  | 17.11  | 17.13  | 17.15  | 17.36 | 17.24  | 17.12  | 18.7                      | 0           |
| 15              | 16QAM  | 36  | 20 | 17.05  | 17.12  | 17.17  | 17.33 | 17.13  | 17.05  |                           |             |
| 15              | 16QAM  | 36  | 39 | 17.08  | 17.17  | 17.37  | 17.36 | 17.29  | 17.15  |                           |             |
| 15              | 16QAM  | 75  | 0  | 16.98  | 16.97  | 17.19  | 17.39 | 17.13  | 17.01  |                           |             |
| 15              | 64QAM  | 1   | 0  | 17.00  | 17.07  | 17.21  | 17.24 | 17.11  | 16.96  | 18.7                      | 0           |
| 15              | 64QAM  | 1   | 37 | 17.27  | 17.35  | 17.32  | 17.34 | 17.37  | 17.20  |                           |             |
| 15              | 64QAM  | 1   | 74 | 17.12  | 17.12  | 17.19  | 17.33 | 17.15  | 17.12  |                           |             |
| 15              | 64QAM  | 36  | 0  | 17.06  | 16.97  | 17.18  | 17.31 | 17.08  | 17.04  | 18.7                      | 0           |
| 15              | 64QAM  | 36  | 20 | 17.07  | 17.08  | 17.27  | 17.22 | 17.15  | 16.96  |                           |             |
| 15              | 64QAM  | 36  | 39 | 17.06  | 16.95  | 17.14  | 17.16 | 17.01  | 16.95  |                           |             |
| 15              | 64QAM  | 75  | 0  | 17.00  | 17.04  | 17.24  | 17.40 | 17.24  | 17.07  |                           |             |
| 15              | 256QAM | 1   | 0  | 17.11  | 17.00  | 17.15  | 17.22 | 17.20  | 16.99  | 18.7                      | 0           |
| 15              | 256QAM | 1   | 37 | 17.01  | 16.95  | 17.09  | 17.24 | 16.98  | 16.91  |                           |             |
| 15              | 256QAM | 1   | 74 | 17.08  | 17.07  | 17.14  | 17.37 | 17.22  | 17.07  |                           |             |
| 15              | 256QAM | 36  | 0  | 17.06  | 17.00  | 17.19  | 17.18 | 17.12  | 17.13  | 18.7                      | 0           |
| 15              | 256QAM | 36  | 20 | 16.90  | 16.89  | 17.18  | 17.06 | 16.98  | 16.89  |                           |             |
| 15              | 256QAM | 36  | 39 | 17.17  | 17.22  | 17.09  | 17.33 | 17.29  | 17.19  |                           |             |
| 15              | 256QAM | 75  | 0  | 16.95  | 16.99  | 17.09  | 17.17 | 17.12  | 16.99  |                           |             |
| Channel         |        |     |    | 39740  | 39700  | 40160  | 40620 | 41080  | 41540  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 2505   | 2501   | 2547   | 2593  | 2639   | 2685   |                           |             |
| 10              | QPSK   | 1   | 0  | 17.28  | 17.36  | 17.32  | 17.55 | 17.42  | 17.34  | 18.70                     | 0           |
| 10              | QPSK   | 1   | 25 | 17.27  | 17.35  | 17.43  | 17.44 | 17.45  | 17.27  |                           |             |



|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 10              | QPSK   | 1  | 49 | 17.28  | 17.26  | 17.34  | 17.33 | 17.32   | 17.20  |                           |             |
| 10              | QPSK   | 25 | 0  | 17.17  | 17.18  | 17.37  | 17.35 | 17.27   | 17.15  | 18.7                      | 0           |
| 10              | QPSK   | 25 | 12 | 17.14  | 17.24  | 17.28  | 17.36 | 17.29   | 17.15  |                           |             |
| 10              | QPSK   | 25 | 25 | 16.90  | 16.97  | 17.05  | 17.15 | 16.97   | 16.87  |                           |             |
| 10              | QPSK   | 50 | 0  | 17.09  | 17.16  | 17.20  | 17.42 | 17.27   | 17.02  |                           |             |
| 10              | 16QAM  | 1  | 0  | 17.07  | 17.11  | 17.39  | 17.35 | 17.20   | 17.23  | 18.7                      | 0           |
| 10              | 16QAM  | 1  | 25 | 17.05  | 17.06  | 17.11  | 17.21 | 17.19   | 17.09  |                           |             |
| 10              | 16QAM  | 1  | 49 | 17.27  | 17.15  | 17.36  | 17.42 | 17.34   | 17.14  |                           |             |
| 10              | 16QAM  | 25 | 0  | 17.00  | 17.15  | 17.21  | 17.36 | 17.13   | 17.08  | 18.7                      | 0           |
| 10              | 16QAM  | 25 | 12 | 17.01  | 17.11  | 17.21  | 17.25 | 17.17   | 17.03  |                           |             |
| 10              | 16QAM  | 25 | 25 | 17.18  | 17.18  | 17.42  | 17.38 | 17.29   | 17.11  |                           |             |
| 10              | 16QAM  | 50 | 0  | 17.02  | 17.04  | 17.19  | 17.41 | 17.13   | 16.95  |                           |             |
| 10              | 64QAM  | 1  | 0  | 17.09  | 17.05  | 17.18  | 17.29 | 17.17   | 16.96  | 18.7                      | 0           |
| 10              | 64QAM  | 1  | 25 | 17.32  | 17.35  | 17.27  | 17.39 | 17.36   | 17.25  |                           |             |
| 10              | 64QAM  | 1  | 49 | 17.07  | 17.12  | 17.23  | 17.29 | 17.16   | 17.07  |                           |             |
| 10              | 64QAM  | 25 | 0  | 17.06  | 16.97  | 17.15  | 17.26 | 17.18   | 17.09  | 18.7                      | 0           |
| 10              | 64QAM  | 25 | 12 | 17.10  | 17.04  | 17.23  | 17.32 | 17.10   | 17.02  |                           |             |
| 10              | 64QAM  | 25 | 25 | 17.04  | 16.93  | 17.13  | 17.17 | 17.03   | 16.91  |                           |             |
| 10              | 64QAM  | 50 | 0  | 17.00  | 17.06  | 17.25  | 17.33 | 17.19   | 17.06  |                           |             |
| 10              | 256QAM | 1  | 0  | 17.08  | 17.07  | 17.19  | 17.20 | 17.12   | 17.06  | 18.7                      | 0           |
| 10              | 256QAM | 1  | 25 | 16.92  | 16.95  | 17.14  | 17.23 | 17.03   | 16.96  |                           |             |
| 10              | 256QAM | 1  | 49 | 17.05  | 17.05  | 17.13  | 17.36 | 17.18   | 16.98  |                           |             |
| 10              | 256QAM | 25 | 0  | 17.07  | 17.03  | 17.20  | 17.11 | 17.11   | 17.07  | 18.7                      | 0           |
| 10              | 256QAM | 25 | 12 | 16.90  | 16.96  | 17.12  | 17.12 | 16.99   | 16.81  |                           |             |
| 10              | 256QAM | 25 | 25 | 17.17  | 17.24  | 17.13  | 17.26 | 17.31   | 17.15  |                           |             |
| 10              | 256QAM | 50 | 0  | 16.96  | 17.05  | 17.14  | 17.14 | 17.06   | 17.02  |                           |             |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 17.29  | 17.26  | 17.39  | 17.46 | 17.43   | 17.31  | 18.70                     | 0           |
| 5               | QPSK   | 1  | 12 | 17.28  | 17.37  | 17.38  | 17.45 | 17.40   | 17.32  |                           |             |
| 5               | QPSK   | 1  | 24 | 17.24  | 17.16  | 17.31  | 17.35 | 17.29   | 17.20  |                           |             |
| 5               | QPSK   | 12 | 0  | 17.16  | 17.15  | 17.35  | 17.41 | 17.21   | 17.19  | 18.7                      | 0           |
| 5               | QPSK   | 12 | 7  | 17.22  | 17.25  | 17.22  | 17.38 | 17.38   | 17.25  |                           |             |
| 5               | QPSK   | 12 | 13 | 16.91  | 16.91  | 17.03  | 17.14 | 16.97   | 16.96  |                           |             |
| 5               | QPSK   | 25 | 0  | 17.08  | 17.16  | 17.22  | 17.40 | 17.28   | 17.06  |                           |             |
| 5               | 16QAM  | 1  | 0  | 17.15  | 17.17  | 17.30  | 17.32 | 17.31   | 17.16  | 18.7                      | 0           |
| 5               | 16QAM  | 1  | 12 | 17.04  | 16.98  | 17.17  | 17.23 | 17.15   | 17.07  |                           |             |
| 5               | 16QAM  | 1  | 24 | 17.27  | 17.23  | 17.40  | 17.48 | 17.31   | 17.16  |                           |             |
| 5               | 16QAM  | 12 | 0  | 17.05  | 17.10  | 17.19  | 17.36 | 17.19   | 17.08  | 18.7                      | 0           |
| 5               | 16QAM  | 12 | 7  | 17.04  | 17.07  | 17.14  | 17.27 | 17.20   | 16.98  |                           |             |
| 5               | 16QAM  | 12 | 13 | 17.18  | 17.24  | 17.41  | 17.38 | 17.23   | 17.09  |                           |             |
| 5               | 16QAM  | 25 | 0  | 17.00  | 16.99  | 17.14  | 17.34 | 17.16   | 17.05  |                           |             |
| 5               | 64QAM  | 1  | 0  | 17.02  | 17.13  | 17.17  | 17.29 | 17.20   | 17.05  | 18.7                      | 0           |
| 5               | 64QAM  | 1  | 12 | 17.26  | 17.28  | 17.28  | 17.44 | 17.38   | 17.17  |                           |             |
| 5               | 64QAM  | 1  | 24 | 17.08  | 17.09  | 17.17  | 17.35 | 17.12   | 17.08  |                           |             |
| 5               | 64QAM  | 12 | 0  | 17.00  | 17.00  | 17.11  | 17.32 | 17.14   | 17.10  | 18.7                      | 0           |
| 5               | 64QAM  | 12 | 7  | 17.01  | 17.06  | 17.26  | 17.28 | 17.11   | 17.05  |                           |             |
| 5               | 64QAM  | 12 | 13 | 17.02  | 16.99  | 17.07  | 17.18 | 17.06   | 16.96  |                           |             |
| 5               | 64QAM  | 25 | 0  | 17.08  | 17.09  | 17.16  | 17.32 | 17.20   | 17.09  |                           |             |



|   |        |    |    |       |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|-------|------|---|
| 5 | 256QAM | 1  | 0  | 17.15 | 17.08 | 17.16 | 17.27 | 17.12 | 17.07 | 18.7 | 0 |
| 5 | 256QAM | 1  | 12 | 16.91 | 16.90 | 17.06 | 17.19 | 17.02 | 16.86 |      |   |
| 5 | 256QAM | 1  | 24 | 17.13 | 16.99 | 17.18 | 17.35 | 17.18 | 17.07 |      |   |
| 5 | 256QAM | 12 | 0  | 17.05 | 16.99 | 17.19 | 17.11 | 17.16 | 17.11 | 18.7 | 0 |
| 5 | 256QAM | 12 | 7  | 16.87 | 16.97 | 17.16 | 17.08 | 16.94 | 16.90 |      |   |
| 5 | 256QAM | 12 | 13 | 17.22 | 17.21 | 17.20 | 17.32 | 17.33 | 17.13 |      |   |
| 5 | 256QAM | 25 | 0  | 16.87 | 17.02 | 17.13 | 17.19 | 17.07 | 16.92 |      |   |

### Band 41 HPUE Ant3 DSI2

| BW [MHz]        | Modulation | RB Size | RB Offset | for IC<br>Power<br>Low<br>Ch. / Freq. | Power<br>Low<br>Ch. / Freq. | Power<br>Low Middle<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | 25.77  | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|---------------------------------------|-----------------------------|------------------------------------|--------------------------------|--------|------------------------------|---------------------------|-------------|
| Channel         |            |         |           | 39790                                 | 39750                       | 40185                              | 40620                          | 41055  | 41490                        |                           |             |
| Frequency (MHz) |            |         |           | 2510                                  | 2506                        | 2549.5                             | 2593                           | 2636.5 | 2680                         |                           |             |
| 20              | QPSK       | 1       | 0         | 19.06                                 | 19.05                       | 19.13                              | 19.25                          | 19.18  | 19.01                        | 20.3                      | 0           |
| 20              | QPSK       | 1       | 49        | 19.07                                 | 19.03                       | 19.21                              | 19.21                          | 19.10  | 19.09                        |                           |             |
| 20              | QPSK       | 1       | 99        | 18.95                                 | 18.98                       | 18.99                              | 19.08                          | 18.99  | 18.96                        |                           |             |
| 20              | QPSK       | 50      | 0         | 18.95                                 | 18.91                       | 19.04                              | 19.07                          | 19.04  | 18.90                        | 20.3                      | 0           |
| 20              | QPSK       | 50      | 24        | 18.93                                 | 19.04                       | 19.06                              | 19.03                          | 19.04  | 18.98                        |                           |             |
| 20              | QPSK       | 50      | 50        | 18.61                                 | 18.69                       | 18.77                              | 18.89                          | 18.81  | 18.71                        |                           |             |
| 20              | QPSK       | 100     | 0         | 18.83                                 | 18.87                       | 18.90                              | 19.10                          | 19.00  | 18.83                        |                           |             |
| 20              | 16QAM      | 1       | 0         | 18.92                                 | 18.81                       | 19.06                              | 19.05                          | 18.99  | 18.87                        | 20.3                      | 0           |
| 20              | 16QAM      | 1       | 49        | 18.83                                 | 18.78                       | 18.90                              | 19.00                          | 18.87  | 18.78                        |                           |             |
| 20              | 16QAM      | 1       | 99        | 19.04                                 | 18.90                       | 19.03                              | 19.21                          | 19.04  | 18.96                        |                           |             |
| 20              | 16QAM      | 50      | 0         | 18.76                                 | 18.81                       | 18.93                              | 19.10                          | 18.88  | 18.86                        | 20.3                      | 0           |
| 20              | 16QAM      | 50      | 24        | 18.84                                 | 18.87                       | 18.95                              | 18.98                          | 18.93  | 18.76                        |                           |             |
| 20              | 16QAM      | 50      | 50        | 18.83                                 | 18.95                       | 19.05                              | 19.06                          | 18.95  | 18.80                        |                           |             |
| 20              | 16QAM      | 100     | 0         | 18.78                                 | 18.80                       | 18.90                              | 19.10                          | 18.86  | 18.78                        |                           |             |
| 20              | 64QAM      | 1       | 0         | 18.75                                 | 18.83                       | 18.91                              | 19.01                          | 18.88  | 18.78                        | 20.3                      | 0           |
| 20              | 64QAM      | 1       | 49        | 19.00                                 | 19.08                       | 18.99                              | 19.17                          | 19.07  | 18.99                        |                           |             |
| 20              | 64QAM      | 1       | 99        | 18.84                                 | 18.86                       | 18.98                              | 19.09                          | 18.91  | 18.77                        |                           |             |
| 20              | 64QAM      | 50      | 0         | 18.71                                 | 18.70                       | 18.90                              | 19.05                          | 18.91  | 18.84                        | 20.3                      | 0           |
| 20              | 64QAM      | 50      | 24        | 18.76                                 | 18.87                       | 18.91                              | 18.95                          | 18.84  | 18.79                        |                           |             |
| 20              | 64QAM      | 50      | 50        | 18.70                                 | 18.69                       | 18.89                              | 18.93                          | 18.77  | 18.72                        |                           |             |
| 20              | 64QAM      | 100     | 0         | 18.79                                 | 18.83                       | 18.97                              | 19.14                          | 18.95  | 18.85                        |                           |             |
| 20              | 256QAM     | 1       | 0         | 18.85                                 | 18.77                       | 18.87                              | 19.01                          | 18.85  | 18.76                        | 20.3                      | 0           |
| 20              | 256QAM     | 1       | 49        | 18.68                                 | 18.65                       | 18.84                              | 18.92                          | 18.76  | 18.61                        |                           |             |
| 20              | 256QAM     | 1       | 99        | 18.86                                 | 18.81                       | 18.92                              | 19.09                          | 18.95  | 18.74                        |                           |             |
| 20              | 256QAM     | 50      | 0         | 18.72                                 | 18.70                       | 18.91                              | 18.93                          | 18.94  | 18.79                        | 20.3                      | 0           |
| 20              | 256QAM     | 50      | 24        | 18.66                                 | 18.62                       | 18.84                              | 18.88                          | 18.79  | 18.62                        |                           |             |
| 20              | 256QAM     | 50      | 50        | 19.01                                 | 18.99                       | 18.91                              | 19.01                          | 19.01  | 18.87                        |                           |             |
| 20              | 256QAM     | 100     | 0         | 18.63                                 | 18.84                       | 18.85                              | 18.95                          | 18.84  | 18.66                        |                           |             |
| Channel         |            |         |           | 39765                                 | 39725                       | 40173                              | 40620                          | 41068  | 41515                        | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2507.5                                | 2503.5                      | 2548.3                             | 2593                           | 2637.8 | 2682.5                       |                           |             |
| 15              | QPSK       | 1       | 0         | 18.99                                 | 18.94                       | 19.05                              | 19.13                          | 19.06  | 18.92                        |                           |             |
| 15              | QPSK       | 1       | 37        | 19.02                                 | 18.99                       | 19.10                              | 19.15                          | 19.01  | 18.97                        | 20.30                     | 0           |
| 15              | QPSK       | 1       | 74        | 18.86                                 | 18.93                       | 18.87                              | 18.95                          | 18.84  | 18.85                        |                           |             |
| 15              | QPSK       | 36      | 0         | 18.88                                 | 18.76                       | 18.90                              | 18.94                          | 18.91  | 18.81                        | 20.3                      | 0           |



|                 |        |    |    |       |       |       |       |       |       |                           |             |
|-----------------|--------|----|----|-------|-------|-------|-------|-------|-------|---------------------------|-------------|
| 15              | QPSK   | 36 | 20 | 18.84 | 18.99 | 18.95 | 18.93 | 18.89 | 18.91 |                           |             |
| 15              | QPSK   | 36 | 39 | 18.51 | 18.62 | 18.73 | 18.82 | 18.71 | 18.60 |                           |             |
| 15              | QPSK   | 75 | 0  | 18.68 | 18.78 | 18.82 | 19.06 | 18.90 | 18.78 |                           |             |
| 15              | 16QAM  | 1  | 0  | 18.87 | 18.76 | 18.95 | 18.99 | 18.84 | 18.81 | 20.3                      | 0           |
| 15              | 16QAM  | 1  | 37 | 18.78 | 18.70 | 18.78 | 18.86 | 18.72 | 18.70 |                           |             |
| 15              | 16QAM  | 1  | 74 | 18.88 | 18.74 | 18.95 | 19.13 | 18.97 | 18.81 |                           |             |
| 15              | 16QAM  | 36 | 0  | 18.72 | 18.67 | 18.87 | 19.00 | 18.75 | 18.73 | 20.3                      | 0           |
| 15              | 16QAM  | 36 | 20 | 18.71 | 18.78 | 18.88 | 18.89 | 18.80 | 18.67 |                           |             |
| 15              | 16QAM  | 36 | 39 | 18.78 | 18.87 | 18.93 | 19.01 | 18.79 | 18.73 |                           |             |
| 15              | 16QAM  | 75 | 0  | 18.65 | 18.75 | 18.84 | 19.06 | 18.74 | 18.66 | 20.3                      | 0           |
| 15              | 64QAM  | 1  | 0  | 18.62 | 18.76 | 18.83 | 18.97 | 18.73 | 18.73 |                           |             |
| 15              | 64QAM  | 1  | 37 | 18.93 | 18.96 | 18.90 | 19.07 | 18.92 | 18.87 |                           |             |
| 15              | 64QAM  | 1  | 74 | 18.75 | 18.75 | 18.89 | 19.04 | 18.85 | 18.63 | 20.3                      | 0           |
| 15              | 64QAM  | 36 | 0  | 18.66 | 18.63 | 18.85 | 18.90 | 18.84 | 18.78 |                           |             |
| 15              | 64QAM  | 36 | 20 | 18.62 | 18.72 | 18.85 | 18.83 | 18.70 | 18.64 |                           |             |
| 15              | 64QAM  | 36 | 39 | 18.55 | 18.65 | 18.82 | 18.86 | 18.71 | 18.64 | 20.3                      | 0           |
| 15              | 64QAM  | 75 | 0  | 18.67 | 18.70 | 18.85 | 19.09 | 18.89 | 18.78 |                           |             |
| 15              | 256QAM | 1  | 0  | 18.73 | 18.63 | 18.76 | 18.93 | 18.80 | 18.70 |                           |             |
| 15              | 256QAM | 1  | 37 | 18.58 | 18.53 | 18.78 | 18.85 | 18.67 | 18.51 | 20.3                      | 0           |
| 15              | 256QAM | 1  | 74 | 18.71 | 18.75 | 18.85 | 19.00 | 18.86 | 18.60 |                           |             |
| 15              | 256QAM | 36 | 0  | 18.64 | 18.56 | 18.85 | 18.78 | 18.83 | 18.66 |                           |             |
| 15              | 256QAM | 36 | 20 | 18.60 | 18.53 | 18.71 | 18.75 | 18.72 | 18.49 | 20.3                      | 0           |
| 15              | 256QAM | 36 | 39 | 18.89 | 18.94 | 18.82 | 18.97 | 18.96 | 18.82 |                           |             |
| 15              | 256QAM | 75 | 0  | 18.50 | 18.71 | 18.77 | 18.85 | 18.71 | 18.61 |                           |             |
| Channel         |        |    |    | 39740 | 39700 | 40160 | 40620 | 41080 | 41540 | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2505  | 2501  | 2547  | 2593  | 2639  | 2685  |                           |             |
| 10              | QPSK   | 1  | 0  | 18.93 | 18.97 | 19.09 | 19.21 | 19.10 | 18.96 | 20.30                     | 0           |
| 10              | QPSK   | 1  | 25 | 18.95 | 18.94 | 19.16 | 19.14 | 18.96 | 18.97 |                           |             |
| 10              | QPSK   | 1  | 49 | 18.89 | 18.84 | 18.84 | 19.00 | 18.90 | 18.82 |                           |             |
| 10              | QPSK   | 25 | 0  | 18.89 | 18.85 | 18.89 | 18.91 | 18.96 | 18.83 | 20.3                      | 0           |
| 10              | QPSK   | 25 | 12 | 18.78 | 18.98 | 18.96 | 18.88 | 18.97 | 18.88 |                           |             |
| 10              | QPSK   | 25 | 25 | 18.48 | 18.62 | 18.67 | 18.83 | 18.76 | 18.58 |                           |             |
| 10              | QPSK   | 50 | 0  | 18.73 | 18.76 | 18.81 | 19.00 | 18.94 | 18.73 | 20.3                      | 0           |
| 10              | 16QAM  | 1  | 0  | 18.88 | 18.75 | 19.00 | 18.93 | 18.93 | 18.81 |                           |             |
| 10              | 16QAM  | 1  | 25 | 18.68 | 18.65 | 18.75 | 18.85 | 18.79 | 18.71 |                           |             |
| 10              | 16QAM  | 1  | 49 | 18.89 | 18.79 | 18.88 | 19.10 | 18.91 | 18.86 | 20.3                      | 0           |
| 10              | 16QAM  | 25 | 0  | 18.68 | 18.71 | 18.83 | 18.97 | 18.76 | 18.79 |                           |             |
| 10              | 16QAM  | 25 | 12 | 18.79 | 18.80 | 18.85 | 18.87 | 18.87 | 18.65 |                           |             |
| 10              | 16QAM  | 25 | 25 | 18.74 | 18.84 | 18.99 | 18.91 | 18.86 | 18.66 | 20.3                      | 0           |
| 10              | 16QAM  | 50 | 0  | 18.64 | 18.65 | 18.82 | 18.94 | 18.73 | 18.67 |                           |             |
| 10              | 64QAM  | 1  | 0  | 18.60 | 18.76 | 18.78 | 18.90 | 18.74 | 18.65 |                           |             |
| 10              | 64QAM  | 1  | 25 | 18.95 | 18.98 | 18.86 | 19.07 | 19.01 | 18.87 | 20.3                      | 0           |
| 10              | 64QAM  | 1  | 49 | 18.77 | 18.78 | 18.82 | 19.04 | 18.83 | 18.73 |                           |             |
| 10              | 64QAM  | 25 | 0  | 18.59 | 18.55 | 18.85 | 18.95 | 18.85 | 18.70 |                           |             |
| 10              | 64QAM  | 25 | 12 | 18.70 | 18.83 | 18.76 | 18.83 | 18.68 | 18.72 | 20.3                      | 0           |
| 10              | 64QAM  | 25 | 25 | 18.61 | 18.55 | 18.77 | 18.84 | 18.67 | 18.62 |                           |             |
| 10              | 64QAM  | 50 | 0  | 18.72 | 18.74 | 18.85 | 19.01 | 18.84 | 18.74 |                           |             |
| 10              | 256QAM | 1  | 0  | 18.72 | 18.67 | 18.72 | 18.88 | 18.74 | 18.63 | 20.3                      | 0           |
| 10              | 256QAM | 1  | 25 | 18.58 | 18.60 | 18.78 | 18.79 | 18.63 | 18.68 |                           |             |



|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 10              | 256QAM | 1  | 49 | 18.80  | 18.75  | 18.81  | 19.02 | 18.85   | 18.61  |                           |             |
| 10              | 256QAM | 25 | 0  | 18.66  | 18.60  | 18.83  | 18.78 | 18.80   | 18.70  | 20.3                      | 0           |
| 10              | 256QAM | 25 | 12 | 18.59  | 18.49  | 18.70  | 18.78 | 18.72   | 18.54  |                           |             |
| 10              | 256QAM | 25 | 25 | 18.96  | 18.85  | 18.84  | 18.87 | 18.86   | 18.80  |                           |             |
| 10              | 256QAM | 50 | 0  | 18.48  | 18.70  | 18.81  | 18.81 | 18.78   | 18.61  |                           |             |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 18.96  | 18.99  | 19.00  | 19.20 | 19.05   | 18.86  | 20.30                     | 0           |
| 5               | QPSK   | 1  | 12 | 18.99  | 18.91  | 19.05  | 19.07 | 19.01   | 18.98  |                           |             |
| 5               | QPSK   | 1  | 24 | 18.88  | 18.91  | 18.92  | 19.01 | 18.90   | 18.89  |                           |             |
| 5               | QPSK   | 12 | 0  | 18.80  | 18.83  | 18.90  | 19.03 | 18.96   | 18.76  | 20.3                      | 0           |
| 5               | QPSK   | 12 | 7  | 18.81  | 18.96  | 18.97  | 18.95 | 18.90   | 18.82  |                           |             |
| 5               | QPSK   | 12 | 13 | 18.67  | 18.63  | 18.66  | 18.76 | 18.74   | 18.58  |                           |             |
| 5               | QPSK   | 25 | 0  | 18.67  | 18.81  | 18.82  | 19.04 | 18.92   | 18.75  |                           |             |
| 5               | 16QAM  | 1  | 0  | 18.82  | 18.66  | 19.00  | 18.96 | 18.88   | 18.76  | 20.3                      | 0           |
| 5               | 16QAM  | 1  | 12 | 18.79  | 18.70  | 18.75  | 18.89 | 18.73   | 18.74  |                           |             |
| 5               | 16QAM  | 1  | 24 | 18.89  | 18.83  | 18.98  | 19.05 | 18.93   | 18.83  |                           |             |
| 5               | 16QAM  | 12 | 0  | 18.63  | 18.66  | 18.79  | 18.97 | 18.80   | 18.75  | 20.3                      | 0           |
| 5               | 16QAM  | 12 | 7  | 18.75  | 18.78  | 18.83  | 18.89 | 18.79   | 18.71  |                           |             |
| 5               | 16QAM  | 12 | 13 | 18.77  | 18.82  | 18.91  | 18.94 | 18.83   | 18.73  |                           |             |
| 5               | 16QAM  | 25 | 0  | 18.66  | 18.75  | 18.85  | 19.03 | 18.77   | 18.65  |                           |             |
| 5               | 64QAM  | 1  | 0  | 18.65  | 18.70  | 18.82  | 18.89 | 18.73   | 18.72  | 20.3                      | 0           |
| 5               | 64QAM  | 1  | 12 | 18.85  | 18.95  | 18.92  | 19.07 | 18.91   | 18.86  |                           |             |
| 5               | 64QAM  | 1  | 24 | 18.78  | 18.77  | 18.86  | 18.99 | 18.80   | 18.63  |                           |             |
| 5               | 64QAM  | 12 | 0  | 18.64  | 18.59  | 18.86  | 18.98 | 18.75   | 18.75  | 20.3                      | 0           |
| 5               | 64QAM  | 12 | 7  | 18.68  | 18.77  | 18.84  | 18.83 | 18.72   | 18.73  |                           |             |
| 5               | 64QAM  | 12 | 13 | 18.59  | 18.57  | 18.77  | 18.80 | 18.63   | 18.66  |                           |             |
| 5               | 64QAM  | 25 | 0  | 18.73  | 18.70  | 18.84  | 19.01 | 18.87   | 18.72  |                           |             |
| 5               | 256QAM | 1  | 0  | 18.71  | 18.72  | 18.74  | 18.95 | 18.75   | 18.65  | 20.3                      | 0           |
| 5               | 256QAM | 1  | 12 | 18.57  | 18.56  | 18.80  | 18.85 | 18.63   | 18.57  |                           |             |
| 5               | 256QAM | 1  | 24 | 18.77  | 18.71  | 18.78  | 18.98 | 18.90   | 18.69  |                           |             |
| 5               | 256QAM | 12 | 0  | 18.62  | 18.63  | 18.85  | 18.80 | 18.85   | 18.69  | 20.3                      | 0           |
| 5               | 256QAM | 12 | 7  | 18.60  | 18.46  | 18.75  | 18.79 | 18.70   | 18.49  |                           |             |
| 5               | 256QAM | 12 | 13 | 18.91  | 18.87  | 18.76  | 18.89 | 18.93   | 18.82  |                           |             |
| 5               | 256QAM | 25 | 0  | 18.50  | 18.70  | 18.78  | 18.90 | 18.71   | 18.56  |                           |             |

| Band 48 Ant4 DSI2 |            |         |           |                       |                              |                               |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |          |
| Frequency (MHz)   |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |
| 20                | QPSK       | 1       | 0         | 17.24                 | 17.41                        | 17.31                         | 17.34                  | 18.2                | 0        |
| 20                | QPSK       | 1       | 49        | 17.26                 | 17.25                        | 17.33                         | 17.31                  |                     |          |
| 20                | QPSK       | 1       | 99        | 17.10                 | 17.13                        | 17.32                         | 17.22                  |                     |          |
| 20                | QPSK       | 50      | 0         | 17.12                 | 17.15                        | 17.28                         | 17.19                  | 18.2                | 0        |
| 20                | QPSK       | 50      | 24        | 17.06                 | 17.19                        | 17.26                         | 17.16                  |                     |          |
| 20                | QPSK       | 50      | 50        | 16.80                 | 16.85                        | 17.10                         | 16.96                  |                     |          |
| 20                | QPSK       | 100     | 0         | 16.95                 | 17.08                        | 17.24                         | 17.15                  |                     |          |
| 20                | 16QAM      | 1       | 0         | 17.13                 | 16.96                        | 17.27                         | 17.12                  | 18.2                | 0        |
| 20                | 16QAM      | 1       | 49        | 17.01                 | 16.90                        | 17.20                         | 17.09                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 17.27                 | 17.11                        | 17.39                         | 17.19                  |                     |          |
| 20                | 16QAM      | 50      | 0         | 16.93                 | 17.00                        | 17.24                         | 17.08                  | 18.2                | 0        |
| 20                | 16QAM      | 50      | 24        | 17.07                 | 17.00                        | 17.18                         | 17.15                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 16.97                 | 17.17                        | 17.18                         | 17.16                  |                     |          |
| 20                | 16QAM      | 100     | 0         | 16.93                 | 17.00                        | 17.28                         | 16.99                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 16.91                 | 16.96                        | 17.24                         | 17.05                  | 18.2                | 0        |
| 20                | 64QAM      | 1       | 49        | 17.18                 | 17.27                        | 17.32                         | 17.22                  |                     |          |
| 20                | 64QAM      | 1       | 99        | 17.08                 | 17.02                        | 17.31                         | 17.07                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 16.91                 | 16.90                        | 17.19                         | 17.08                  | 18.2                | 0        |
| 20                | 64QAM      | 50      | 24        | 16.93                 | 17.03                        | 17.12                         | 17.00                  |                     |          |
| 20                | 64QAM      | 50      | 50        | 16.85                 | 16.90                        | 17.13                         | 16.98                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 16.96                 | 17.01                        | 17.32                         | 17.07                  |                     |          |
| 20                | 256QAM     | 1       | 0         | 17.02                 | 16.90                        | 17.18                         | 17.04                  | 18                  | 0.2      |
| 20                | 256QAM     | 1       | 49        | 16.88                 | 16.82                        | 17.09                         | 17.00                  |                     |          |
| 20                | 256QAM     | 1       | 99        | 17.00                 | 16.99                        | 17.30                         | 17.17                  |                     |          |
| 20                | 256QAM     | 50      | 0         | 16.90                 | 16.92                        | 17.06                         | 17.14                  | 18                  | 0.2      |
| 20                | 256QAM     | 50      | 24        | 16.87                 | 16.85                        | 17.02                         | 16.97                  |                     |          |
| 20                | 256QAM     | 50      | 50        | 17.24                 | 17.19                        | 17.25                         | 17.15                  |                     |          |
| 20                | 256QAM     | 100     | 0         | 16.77                 | 16.96                        | 17.16                         | 17.03                  |                     |          |
| Channel           |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |
| 15                | QPSK       | 1       | 0         | 17.16                 | 17.17                        | 17.34                         | 17.25                  | 18.2                | 0        |
| 15                | QPSK       | 1       | 37        | 17.14                 | 17.16                        | 17.20                         | 17.16                  |                     |          |
| 15                | QPSK       | 1       | 74        | 17.06                 | 17.01                        | 17.18                         | 17.07                  |                     |          |
| 15                | QPSK       | 36      | 0         | 16.99                 | 17.10                        | 17.19                         | 17.04                  | 18.2                | 0        |
| 15                | QPSK       | 36      | 20        | 17.01                 | 17.04                        | 17.12                         | 17.00                  |                     |          |
| 15                | QPSK       | 36      | 39        | 16.75                 | 16.79                        | 17.04                         | 16.83                  |                     |          |
| 15                | QPSK       | 75      | 0         | 16.81                 | 16.96                        | 17.19                         | 17.10                  |                     |          |
| 15                | 16QAM      | 1       | 0         | 17.08                 | 16.87                        | 17.13                         | 16.96                  | 18.2                | 0        |
| 15                | 16QAM      | 1       | 37        | 16.86                 | 16.82                        | 17.10                         | 16.98                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 17.16                 | 17.02                        | 17.26                         | 17.03                  |                     |          |
| 15                | 16QAM      | 36      | 0         | 16.87                 | 16.92                        | 17.20                         | 17.00                  | 18.2                | 0        |



|                 |        |    |    |        |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 16.93  | 16.88  | 17.10  | 17.11  |                        |             |
| 15              | 16QAM  | 36 | 39 | 16.92  | 17.12  | 17.03  | 17.08  |                        |             |
| 15              | 16QAM  | 75 | 0  | 16.82  | 16.84  | 17.14  | 16.86  |                        |             |
| 15              | 64QAM  | 1  | 0  | 16.81  | 16.89  | 17.19  | 16.98  | 18.2                   | 0           |
| 15              | 64QAM  | 1  | 37 | 17.03  | 17.21  | 17.22  | 17.14  |                        |             |
| 15              | 64QAM  | 1  | 74 | 17.01  | 16.95  | 17.15  | 17.02  |                        |             |
| 15              | 64QAM  | 36 | 0  | 16.79  | 16.82  | 17.11  | 16.99  | 18.2                   | 0           |
| 15              | 64QAM  | 36 | 20 | 16.86  | 16.94  | 16.96  | 16.88  |                        |             |
| 15              | 64QAM  | 36 | 39 | 16.70  | 16.79  | 17.03  | 16.84  |                        |             |
| 15              | 64QAM  | 75 | 0  | 16.82  | 16.94  | 17.27  | 16.93  | 18                     | 0.2         |
| 15              | 256QAM | 1  | 0  | 16.87  | 16.77  | 17.10  | 16.88  |                        |             |
| 15              | 256QAM | 1  | 37 | 16.79  | 16.77  | 17.03  | 16.88  |                        |             |
| 15              | 256QAM | 1  | 74 | 16.91  | 16.90  | 17.23  | 17.04  | 18                     | 0.2         |
| 15              | 256QAM | 36 | 0  | 16.86  | 16.87  | 16.95  | 17.01  |                        |             |
| 15              | 256QAM | 36 | 20 | 16.73  | 16.80  | 16.97  | 16.83  |                        |             |
| 15              | 256QAM | 36 | 39 | 17.09  | 17.09  | 17.20  | 17.11  | 18                     | 0.2         |
| 15              | 256QAM | 75 | 0  | 16.64  | 16.85  | 17.09  | 16.98  |                        |             |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |             |
| 10              | QPSK   | 1  | 0  | 17.15  | 17.13  | 17.32  | 17.25  | 18.2                   | 0           |
| 10              | QPSK   | 1  | 25 | 17.11  | 17.16  | 17.22  | 17.24  |                        |             |
| 10              | QPSK   | 1  | 49 | 16.99  | 17.07  | 17.19  | 17.16  |                        |             |
| 10              | QPSK   | 25 | 0  | 16.99  | 17.00  | 17.24  | 17.04  | 18.2                   | 0           |
| 10              | QPSK   | 25 | 12 | 16.97  | 17.05  | 17.21  | 17.00  |                        |             |
| 10              | QPSK   | 25 | 25 | 16.74  | 16.77  | 16.97  | 16.83  |                        |             |
| 10              | QPSK   | 50 | 0  | 16.82  | 17.02  | 17.10  | 17.09  | 18.2                   | 0           |
| 10              | 16QAM  | 1  | 0  | 17.01  | 16.84  | 17.18  | 17.05  |                        |             |
| 10              | 16QAM  | 1  | 25 | 16.86  | 16.84  | 17.06  | 17.03  |                        |             |
| 10              | 16QAM  | 1  | 49 | 17.12  | 16.98  | 17.34  | 17.15  | 18.2                   | 0           |
| 10              | 16QAM  | 25 | 0  | 16.85  | 16.92  | 17.16  | 16.98  |                        |             |
| 10              | 16QAM  | 25 | 12 | 16.98  | 16.89  | 17.02  | 17.05  |                        |             |
| 10              | 16QAM  | 25 | 25 | 16.90  | 17.04  | 17.11  | 17.04  | 18.2                   | 0           |
| 10              | 16QAM  | 50 | 0  | 16.89  | 16.87  | 17.13  | 16.83  |                        |             |
| 10              | 64QAM  | 1  | 0  | 16.80  | 16.90  | 17.14  | 17.00  |                        |             |
| 10              | 64QAM  | 1  | 25 | 17.12  | 17.13  | 17.20  | 17.12  | 18.2                   | 0           |
| 10              | 64QAM  | 1  | 49 | 16.98  | 16.96  | 17.18  | 17.03  |                        |             |
| 10              | 64QAM  | 25 | 0  | 16.80  | 16.82  | 17.06  | 16.93  |                        |             |
| 10              | 64QAM  | 25 | 12 | 16.83  | 16.90  | 17.03  | 16.96  | 18.2                   | 0           |
| 10              | 64QAM  | 25 | 25 | 16.72  | 16.76  | 17.08  | 16.89  |                        |             |
| 10              | 64QAM  | 50 | 0  | 16.81  | 16.91  | 17.19  | 16.92  |                        |             |
| 10              | 256QAM | 1  | 0  | 16.87  | 16.84  | 17.13  | 16.98  | 18                     | 0.2         |
| 10              | 256QAM | 1  | 25 | 16.83  | 16.72  | 16.99  | 16.93  |                        |             |
| 10              | 256QAM | 1  | 49 | 16.90  | 16.84  | 17.18  | 17.07  |                        |             |
| 10              | 256QAM | 25 | 0  | 16.79  | 16.86  | 16.93  | 17.05  | 18                     | 0.2         |
| 10              | 256QAM | 25 | 12 | 16.76  | 16.77  | 16.97  | 16.92  |                        |             |
| 10              | 256QAM | 25 | 25 | 17.10  | 17.15  | 17.11  | 17.10  |                        |             |
| 10              | 256QAM | 50 | 0  | 16.65  | 16.80  | 17.10  | 16.91  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  |                        |             |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |             |



|   |        |    |    |       |       |       |       |      |     |
|---|--------|----|----|-------|-------|-------|-------|------|-----|
| 5 | QPSK   | 1  | 0  | 17.13 | 17.16 | 17.26 | 17.28 | 18.2 | 0   |
| 5 | QPSK   | 1  | 12 | 17.18 | 17.12 | 17.19 | 17.26 |      |     |
| 5 | QPSK   | 1  | 24 | 16.96 | 17.02 | 17.23 | 17.14 |      |     |
| 5 | QPSK   | 12 | 0  | 17.07 | 17.06 | 17.16 | 17.13 | 18.2 | 0   |
| 5 | QPSK   | 12 | 7  | 16.91 | 17.14 | 17.13 | 17.05 |      |     |
| 5 | QPSK   | 12 | 13 | 16.66 | 16.80 | 16.98 | 16.88 |      |     |
| 5 | QPSK   | 25 | 0  | 16.86 | 16.97 | 17.14 | 17.02 | 18.2 | 0   |
| 5 | 16QAM  | 1  | 0  | 17.08 | 16.83 | 17.12 | 17.03 |      |     |
| 5 | 16QAM  | 1  | 12 | 16.97 | 16.91 | 17.12 | 16.95 |      |     |
| 5 | 16QAM  | 1  | 24 | 17.13 | 17.02 | 17.32 | 17.07 | 18.2 | 0   |
| 5 | 16QAM  | 12 | 0  | 16.84 | 16.89 | 17.15 | 16.99 |      |     |
| 5 | 16QAM  | 12 | 7  | 17.00 | 16.95 | 17.08 | 17.01 |      |     |
| 5 | 16QAM  | 12 | 13 | 16.92 | 17.07 | 17.10 | 17.07 | 18.2 | 0   |
| 5 | 16QAM  | 25 | 0  | 16.83 | 16.95 | 17.16 | 16.89 |      |     |
| 5 | 64QAM  | 1  | 0  | 16.80 | 16.82 | 17.13 | 16.95 |      |     |
| 5 | 64QAM  | 1  | 12 | 17.09 | 17.16 | 17.23 | 17.15 | 18.2 | 0   |
| 5 | 64QAM  | 1  | 24 | 17.01 | 16.96 | 17.24 | 17.00 |      |     |
| 5 | 64QAM  | 12 | 0  | 16.82 | 16.84 | 17.09 | 17.03 |      |     |
| 5 | 64QAM  | 12 | 7  | 16.82 | 16.97 | 17.07 | 16.89 | 18.2 | 0   |
| 5 | 64QAM  | 12 | 13 | 16.70 | 16.80 | 17.02 | 16.87 |      |     |
| 5 | 64QAM  | 25 | 0  | 16.84 | 16.90 | 17.22 | 16.98 |      |     |
| 5 | 256QAM | 1  | 0  | 16.92 | 16.77 | 17.03 | 16.98 | 18   | 0.2 |
| 5 | 256QAM | 1  | 12 | 16.77 | 16.75 | 16.96 | 16.90 |      |     |
| 5 | 256QAM | 1  | 24 | 16.90 | 16.95 | 17.19 | 17.07 |      |     |
| 5 | 256QAM | 12 | 0  | 16.75 | 16.80 | 16.93 | 17.01 | 18   | 0.2 |
| 5 | 256QAM | 12 | 7  | 16.77 | 16.71 | 16.88 | 16.87 |      |     |
| 5 | 256QAM | 12 | 13 | 17.08 | 17.06 | 17.19 | 17.01 |      |     |
| 5 | 256QAM | 25 | 0  | 16.68 | 16.91 | 17.00 | 16.98 |      |     |

### Reduced Power Mode for DSI 4

#### Band 38 Ant3 DSI4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 18.75                 | 18.85                    | 18.79                  | 19.8                | 0        |
| 20              | QPSK       | 1       | 49        | 18.59                 | 18.65                    | 18.76                  |                     |          |
| 20              | QPSK       | 1       | 99        | 18.71                 | 18.63                    | 18.80                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.46                 | 18.78                    | 18.41                  | 19.8                | 0        |
| 20              | QPSK       | 50      | 24        | 18.46                 | 18.51                    | 18.53                  |                     |          |
| 20              | QPSK       | 50      | 50        | 18.45                 | 18.48                    | 18.49                  |                     |          |
| 20              | QPSK       | 100     | 0         | 18.51                 | 18.75                    | 18.51                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 18.70                 | 18.79                    | 18.66                  | 19.8                | 0        |
| 20              | 16QAM      | 1       | 49        | 18.45                 | 18.58                    | 18.61                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 18.66                 | 18.73                    | 18.68                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 18.47                 | 18.70                    | 18.34                  | 19.8                | 0        |
| 20              | 16QAM      | 50      | 24        | 18.42                 | 18.53                    | 18.56                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 18.43                 | 18.44                    | 18.52                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 18.55                 | 18.61                    | 18.57                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 18.63                 | 18.79                    | 18.84                  | 19.8                | 0        |
| 20              | 64QAM      | 1       | 49        | 18.50                 | 18.63                    | 18.69                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 18.65                 | 18.57                    | 18.81                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 18.45                 | 18.72                    | 18.39                  | 19.8                | 0        |
| 20              | 64QAM      | 50      | 24        | 18.52                 | 18.48                    | 18.39                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 18.43                 | 18.42                    | 18.47                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 18.52                 | 18.66                    | 18.45                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 17.70                 | 17.69                    | 17.73                  | 19                  | 0.8      |
| 20              | 256QAM     | 1       | 49        | 17.56                 | 17.68                    | 17.71                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 17.48                 | 17.46                    | 17.50                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 17.54                 | 17.58                    | 17.52                  | 19                  | 0.8      |
| 20              | 256QAM     | 50      | 24        | 17.75                 | 17.67                    | 17.77                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 17.60                 | 17.59                    | 17.65                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.78                 | 17.80                    | 17.76                  |                     |          |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 18.66                 | 18.75                    | 18.73                  | 19.8                | 0        |
| 15              | QPSK       | 1       | 37        | 18.57                 | 18.56                    | 18.63                  |                     |          |
| 15              | QPSK       | 1       | 74        | 18.68                 | 18.57                    | 18.70                  |                     |          |
| 15              | QPSK       | 36      | 0         | 18.34                 | 18.66                    | 18.34                  | 19.8                | 0        |
| 15              | QPSK       | 36      | 20        | 18.35                 | 18.48                    | 18.50                  |                     |          |
| 15              | QPSK       | 36      | 39        | 18.40                 | 18.40                    | 18.39                  |                     |          |
| 15              | QPSK       | 75      | 0         | 18.39                 | 18.64                    | 18.40                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 18.65                 | 18.67                    | 18.60                  | 19.8                | 0        |
| 15              | 16QAM      | 1       | 37        | 18.33                 | 18.50                    | 18.49                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 18.60                 | 18.65                    | 18.65                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 18.34                 | 18.64                    | 18.32                  | 19.8                | 0        |

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 16QAM  | 36 | 20 | 18.36  | 18.43 | 18.42  |                        |             |
| 15              | 16QAM  | 36 | 39 | 18.30  | 18.35 | 18.40  |                        |             |
| 15              | 16QAM  | 75 | 0  | 18.51  | 18.53 | 18.50  |                        |             |
| 15              | 64QAM  | 1  | 0  | 18.50  | 18.68 | 18.71  | 19.8                   | 0           |
| 15              | 64QAM  | 1  | 37 | 18.38  | 18.61 | 18.62  |                        |             |
| 15              | 64QAM  | 1  | 74 | 18.63  | 18.53 | 18.79  |                        |             |
| 15              | 64QAM  | 36 | 0  | 18.33  | 18.68 | 18.32  | 19.8                   | 0           |
| 15              | 64QAM  | 36 | 20 | 18.43  | 18.36 | 18.33  |                        |             |
| 15              | 64QAM  | 36 | 39 | 18.34  | 18.32 | 18.44  |                        |             |
| 15              | 64QAM  | 75 | 0  | 18.40  | 18.61 | 18.36  | 19                     | 0.8         |
| 15              | 256QAM | 1  | 0  | 17.54  | 17.56 | 17.66  |                        |             |
| 15              | 256QAM | 1  | 37 | 17.49  | 17.52 | 17.65  |                        |             |
| 15              | 256QAM | 1  | 74 | 17.36  | 17.38 | 17.40  | 19                     | 0.8         |
| 15              | 256QAM | 36 | 0  | 17.46  | 17.46 | 17.40  |                        |             |
| 15              | 256QAM | 36 | 20 | 17.68  | 17.56 | 17.73  |                        |             |
| 15              | 256QAM | 36 | 39 | 17.56  | 17.52 | 17.59  |                        |             |
| 15              | 256QAM | 75 | 0  | 17.69  | 17.73 | 17.62  |                        |             |
| Channel         |        |    |    | 37800  | 38000 | 38200  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |             |
| 10              | QPSK   | 1  | 0  | 18.65  | 18.69 | 18.69  | 19.8                   | 0           |
| 10              | QPSK   | 1  | 25 | 18.45  | 18.62 | 18.62  |                        |             |
| 10              | QPSK   | 1  | 49 | 18.63  | 18.52 | 18.71  |                        |             |
| 10              | QPSK   | 25 | 0  | 18.42  | 18.71 | 18.33  | 19.8                   | 0           |
| 10              | QPSK   | 25 | 12 | 18.39  | 18.45 | 18.44  |                        |             |
| 10              | QPSK   | 25 | 25 | 18.42  | 18.37 | 18.36  |                        |             |
| 10              | QPSK   | 50 | 0  | 18.47  | 18.64 | 18.47  |                        |             |
| 10              | 16QAM  | 1  | 0  | 18.60  | 18.70 | 18.56  | 19.8                   | 0           |
| 10              | 16QAM  | 1  | 25 | 18.31  | 18.55 | 18.47  |                        |             |
| 10              | 16QAM  | 1  | 49 | 18.56  | 18.69 | 18.62  |                        |             |
| 10              | 16QAM  | 25 | 0  | 18.40  | 18.66 | 18.31  | 19.8                   | 0           |
| 10              | 16QAM  | 25 | 12 | 18.37  | 18.51 | 18.48  |                        |             |
| 10              | 16QAM  | 25 | 25 | 18.37  | 18.33 | 18.46  |                        |             |
| 10              | 16QAM  | 50 | 0  | 18.51  | 18.56 | 18.44  |                        |             |
| 10              | 64QAM  | 1  | 0  | 18.52  | 18.66 | 18.79  | 19.8                   | 0           |
| 10              | 64QAM  | 1  | 25 | 18.37  | 18.54 | 18.59  |                        |             |
| 10              | 64QAM  | 1  | 49 | 18.57  | 18.47 | 18.69  |                        |             |
| 10              | 64QAM  | 25 | 0  | 18.42  | 18.63 | 18.26  | 19.8                   | 0           |
| 10              | 64QAM  | 25 | 12 | 18.43  | 18.44 | 18.33  |                        |             |
| 10              | 64QAM  | 25 | 25 | 18.41  | 18.36 | 18.43  |                        |             |
| 10              | 64QAM  | 50 | 0  | 18.50  | 18.62 | 18.42  |                        |             |
| 10              | 256QAM | 1  | 0  | 17.54  | 17.57 | 17.66  | 19                     | 0.8         |
| 10              | 256QAM | 1  | 25 | 17.43  | 17.64 | 17.66  |                        |             |
| 10              | 256QAM | 1  | 49 | 17.40  | 17.32 | 17.36  |                        |             |
| 10              | 256QAM | 25 | 0  | 17.41  | 17.53 | 17.40  | 19                     | 0.8         |
| 10              | 256QAM | 25 | 12 | 17.67  | 17.52 | 17.68  |                        |             |
| 10              | 256QAM | 25 | 25 | 17.55  | 17.53 | 17.59  |                        |             |
| 10              | 256QAM | 50 | 0  | 17.65  | 17.74 | 17.67  |                        |             |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |             |

|   |        |    |    |       |       |       |      |     |
|---|--------|----|----|-------|-------|-------|------|-----|
| 5 | QPSK   | 1  | 0  | 18.64 | 18.68 | 18.72 | 19.8 | 0   |
| 5 | QPSK   | 1  | 12 | 18.55 | 18.51 | 18.74 |      |     |
| 5 | QPSK   | 1  | 24 | 18.64 | 18.50 | 18.68 |      |     |
| 5 | QPSK   | 12 | 0  | 18.41 | 18.66 | 18.37 | 19.8 | 0   |
| 5 | QPSK   | 12 | 7  | 18.40 | 18.47 | 18.48 |      |     |
| 5 | QPSK   | 12 | 13 | 18.34 | 18.37 | 18.37 |      |     |
| 5 | QPSK   | 25 | 0  | 18.38 | 18.72 | 18.37 |      |     |
| 5 | 16QAM  | 1  | 0  | 18.65 | 18.70 | 18.56 | 19.8 | 0   |
| 5 | 16QAM  | 1  | 12 | 18.34 | 18.52 | 18.59 |      |     |
| 5 | 16QAM  | 1  | 24 | 18.61 | 18.66 | 18.58 |      |     |
| 5 | 16QAM  | 12 | 0  | 18.44 | 18.57 | 18.25 | 19.8 | 0   |
| 5 | 16QAM  | 12 | 7  | 18.29 | 18.49 | 18.43 |      |     |
| 5 | 16QAM  | 12 | 13 | 18.37 | 18.33 | 18.40 |      |     |
| 5 | 16QAM  | 25 | 0  | 18.46 | 18.58 | 18.50 |      |     |
| 5 | 64QAM  | 1  | 0  | 18.53 | 18.76 | 18.71 |      |     |
| 5 | 64QAM  | 1  | 12 | 18.36 | 18.53 | 18.62 | 19.8 | 0   |
| 5 | 64QAM  | 1  | 24 | 18.59 | 18.47 | 18.74 |      |     |
| 5 | 64QAM  | 12 | 0  | 18.37 | 18.66 | 18.28 |      |     |
| 5 | 64QAM  | 12 | 7  | 18.40 | 18.45 | 18.34 | 19.8 | 0   |
| 5 | 64QAM  | 12 | 13 | 18.30 | 18.34 | 18.42 |      |     |
| 5 | 64QAM  | 25 | 0  | 18.43 | 18.52 | 18.31 |      |     |
| 5 | 256QAM | 1  | 0  | 17.57 | 17.61 | 17.62 |      |     |
| 5 | 256QAM | 1  | 12 | 17.41 | 17.62 | 17.64 | 19   | 0.8 |
| 5 | 256QAM | 1  | 24 | 17.43 | 17.34 | 17.46 |      |     |
| 5 | 256QAM | 12 | 0  | 17.42 | 17.49 | 17.40 |      |     |
| 5 | 256QAM | 12 | 7  | 17.60 | 17.54 | 17.71 | 19   | 0.8 |
| 5 | 256QAM | 12 | 13 | 17.56 | 17.51 | 17.59 |      |     |
| 5 | 256QAM | 25 | 0  | 17.64 | 17.66 | 17.66 |      |     |

| Band 41 Ant3 DSI4 |            |         |           |                                       |                             |                                    |                                |                                     |                              |                           |             |
|-------------------|------------|---------|-----------|---------------------------------------|-----------------------------|------------------------------------|--------------------------------|-------------------------------------|------------------------------|---------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | for IC<br>Power<br>Low<br>Ch. / Freq. | Power<br>Low<br>Ch. / Freq. | Power<br>Low Middle<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 39790                                 | 39750                       | 40185                              | 40620                          | 41055                               | 41490                        | 19.8                      | 0           |
| Frequency (MHz)   |            |         |           | 2510                                  | 2506                        | 2549.5                             | 2593                           | 2636.5                              | 2680                         |                           |             |
| 20                | QPSK       | 1       | 0         | 18.77                                 | 18.64                       | 18.78                              | 18.91                          | 18.89                               | 18.85                        |                           |             |
| 20                | QPSK       | 1       | 49        | 18.73                                 | 18.81                       | 18.70                              | 18.70                          | 18.79                               | 18.81                        | 19.8                      | 0           |
| 20                | QPSK       | 1       | 99        | 18.86                                 | 18.70                       | 18.82                              | 18.73                          | 18.83                               | 18.62                        |                           |             |
| 20                | QPSK       | 50      | 0         | 18.77                                 | 18.57                       | 18.49                              | 18.87                          | 18.54                               | 18.55                        |                           |             |
| 20                | QPSK       | 50      | 24        | 18.56                                 | 18.67                       | 18.56                              | 18.57                          | 18.57                               | 18.67                        |                           |             |
| 20                | QPSK       | 50      | 50        | 18.71                                 | 18.65                       | 18.57                              | 18.59                          | 18.57                               | 18.67                        | 19.8                      | 0           |
| 20                | QPSK       | 100     | 0         | 18.60                                 | 18.83                       | 18.63                              | 18.85                          | 18.61                               | 18.71                        |                           |             |
| 20                | 16QAM      | 1       | 0         | 18.79                                 | 18.57                       | 18.75                              | 18.82                          | 18.74                               | 18.81                        |                           |             |
| 20                | 16QAM      | 1       | 49        | 18.72                                 | 18.62                       | 18.56                              | 18.71                          | 18.68                               | 18.66                        | 19.8                      | 0           |
| 20                | 16QAM      | 1       | 99        | 18.81                                 | 18.61                       | 18.71                              | 18.75                          | 18.75                               | 18.56                        |                           |             |
| 20                | 16QAM      | 50      | 0         | 18.66                                 | 18.42                       | 18.52                              | 18.80                          | 18.45                               | 18.50                        |                           |             |
| 20                | 16QAM      | 50      | 24        | 18.55                                 | 18.65                       | 18.54                              | 18.61                          | 18.61                               | 18.65                        | 19.8                      | 0           |
| 20                | 16QAM      | 50      | 50        | 18.60                                 | 18.54                       | 18.54                              | 18.47                          | 18.55                               | 18.64                        |                           |             |

|                 |        |     |    |        |        |        |       |        |        |                           |             |
|-----------------|--------|-----|----|--------|--------|--------|-------|--------|--------|---------------------------|-------------|
| 20              | 16QAM  | 100 | 0  | 18.49  | 18.71  | 18.61  | 18.73 | 18.61  | 18.67  |                           |             |
| 20              | 64QAM  | 1   | 0  | 18.75  | 18.69  | 18.66  | 18.90 | 18.88  | 18.68  | 19.8                      | 0           |
| 20              | 64QAM  | 1   | 49 | 18.74  | 18.64  | 18.59  | 18.66 | 18.76  | 18.66  |                           |             |
| 20              | 64QAM  | 1   | 99 | 18.78  | 18.65  | 18.70  | 18.67 | 18.83  | 18.57  |                           |             |
| 20              | 64QAM  | 50  | 0  | 18.67  | 18.50  | 18.51  | 18.74 | 18.44  | 18.45  | 19.8                      | 0           |
| 20              | 64QAM  | 50  | 24 | 18.53  | 18.58  | 18.54  | 18.55 | 18.49  | 18.59  |                           |             |
| 20              | 64QAM  | 50  | 50 | 18.59  | 18.66  | 18.57  | 18.52 | 18.57  | 18.71  |                           |             |
| 20              | 64QAM  | 100 | 0  | 18.56  | 18.74  | 18.65  | 18.69 | 18.54  | 18.70  |                           |             |
| 20              | 256QAM | 1   | 0  | 17.74  | 17.81  | 17.81  | 17.78 | 17.86  | 17.79  | 19                        | 0.8         |
| 20              | 256QAM | 1   | 49 | 17.71  | 17.75  | 17.68  | 17.74 | 17.81  | 17.79  |                           |             |
| 20              | 256QAM | 1   | 99 | 17.57  | 17.60  | 17.54  | 17.58 | 17.61  | 17.57  |                           |             |
| 20              | 256QAM | 50  | 0  | 17.72  | 17.61  | 17.66  | 17.67 | 17.64  | 17.62  | 19                        | 0.8         |
| 20              | 256QAM | 50  | 24 | 17.78  | 17.86  | 17.87  | 17.81 | 17.86  | 17.80  |                           |             |
| 20              | 256QAM | 50  | 50 | 17.60  | 17.60  | 17.73  | 17.66 | 17.73  | 17.64  |                           |             |
| 20              | 256QAM | 100 | 0  | 17.87  | 17.83  | 17.93  | 17.89 | 17.83  | 17.85  |                           |             |
| Channel         |        |     |    | 39765  | 39725  | 40173  | 40620 | 41068  | 41515  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 2507.5 | 2503.5 | 2548.3 | 2593  | 2637.8 | 2682.5 |                           |             |
| 15              | QPSK   | 1   | 0  | 18.66  | 18.61  | 18.71  | 18.81 | 18.76  | 18.71  | 19.80                     | 0           |
| 15              | QPSK   | 1   | 37 | 18.61  | 18.70  | 18.61  | 18.60 | 18.70  | 18.70  |                           |             |
| 15              | QPSK   | 1   | 74 | 18.82  | 18.67  | 18.70  | 18.69 | 18.79  | 18.54  |                           |             |
| 15              | QPSK   | 36  | 0  | 18.69  | 18.52  | 18.46  | 18.81 | 18.51  | 18.52  | 19.8                      | 0           |
| 15              | QPSK   | 36  | 20 | 18.53  | 18.58  | 18.46  | 18.45 | 18.54  | 18.57  |                           |             |
| 15              | QPSK   | 36  | 39 | 18.62  | 18.56  | 18.55  | 18.51 | 18.49  | 18.58  |                           |             |
| 15              | QPSK   | 75  | 0  | 18.50  | 18.80  | 18.58  | 18.81 | 18.55  | 18.69  |                           |             |
| 15              | 16QAM  | 1   | 0  | 18.67  | 18.43  | 18.65  | 18.79 | 18.60  | 18.79  | 19.8                      | 0           |
| 15              | 16QAM  | 1   | 37 | 18.67  | 18.53  | 18.44  | 18.61 | 18.55  | 18.63  |                           |             |
| 15              | 16QAM  | 1   | 74 | 18.75  | 18.54  | 18.68  | 18.68 | 18.72  | 18.44  |                           |             |
| 15              | 16QAM  | 36  | 0  | 18.57  | 18.37  | 18.47  | 18.73 | 18.38  | 18.43  | 19.8                      | 0           |
| 15              | 16QAM  | 36  | 20 | 18.49  | 18.54  | 18.41  | 18.53 | 18.49  | 18.63  |                           |             |
| 15              | 16QAM  | 36  | 39 | 18.46  | 18.44  | 18.47  | 18.34 | 18.42  | 18.56  |                           |             |
| 15              | 16QAM  | 75  | 0  | 18.46  | 18.63  | 18.55  | 18.60 | 18.54  | 18.55  |                           |             |
| 15              | 64QAM  | 1   | 0  | 18.69  | 18.67  | 18.62  | 18.79 | 18.74  | 18.60  | 19.8                      | 0           |
| 15              | 64QAM  | 1   | 37 | 18.62  | 18.54  | 18.49  | 18.60 | 18.72  | 18.53  |                           |             |
| 15              | 64QAM  | 1   | 74 | 18.65  | 18.55  | 18.65  | 18.57 | 18.76  | 18.52  |                           |             |
| 15              | 64QAM  | 36  | 0  | 18.57  | 18.40  | 18.47  | 18.72 | 18.33  | 18.32  | 19.8                      | 0           |
| 15              | 64QAM  | 36  | 20 | 18.42  | 18.55  | 18.42  | 18.52 | 18.43  | 18.56  |                           |             |
| 15              | 64QAM  | 36  | 39 | 18.47  | 18.56  | 18.54  | 18.48 | 18.53  | 18.68  |                           |             |
| 15              | 64QAM  | 75  | 0  | 18.49  | 18.60  | 18.56  | 18.66 | 18.42  | 18.61  |                           |             |
| 15              | 256QAM | 1   | 0  | 17.63  | 17.75  | 17.74  | 17.73 | 17.81  | 17.65  | 19                        | 0.8         |
| 15              | 256QAM | 1   | 37 | 17.64  | 17.68  | 17.60  | 17.63 | 17.71  | 17.70  |                           |             |
| 15              | 256QAM | 1   | 74 | 17.43  | 17.52  | 17.49  | 17.51 | 17.48  | 17.50  |                           |             |
| 15              | 256QAM | 36  | 0  | 17.57  | 17.45  | 17.56  | 17.56 | 17.50  | 17.48  | 19                        | 0.8         |
| 15              | 256QAM | 36  | 20 | 17.73  | 17.82  | 17.75  | 17.69 | 17.74  | 17.74  |                           |             |
| 15              | 256QAM | 36  | 39 | 17.48  | 17.54  | 17.68  | 17.57 | 17.65  | 17.58  |                           |             |
| 15              | 256QAM | 75  | 0  | 17.82  | 17.74  | 17.80  | 17.83 | 17.76  | 17.69  |                           |             |
| Channel         |        |     |    | 39740  | 39700  | 40160  | 40620 | 41080  | 41540  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |     |    | 2505   | 2501   | 2547   | 2593  | 2639   | 2685   |                           |             |
| 10              | QPSK   | 1   | 0  | 18.68  | 18.57  | 18.68  | 18.84 | 18.78  | 18.76  | 19.80                     | 0           |
| 10              | QPSK   | 1   | 25 | 18.65  | 18.76  | 18.65  | 18.56 | 18.70  | 18.77  |                           |             |

|                 |        |    |    |        |        |        |       |         |        |                           |             |
|-----------------|--------|----|----|--------|--------|--------|-------|---------|--------|---------------------------|-------------|
| 10              | QPSK   | 1  | 49 | 18.72  | 18.57  | 18.76  | 18.63 | 18.70   | 18.59  |                           |             |
| 10              | QPSK   | 25 | 0  | 18.70  | 18.48  | 18.46  | 18.78 | 18.45   | 18.46  | 19.8                      | 0           |
| 10              | QPSK   | 25 | 12 | 18.43  | 18.64  | 18.53  | 18.45 | 18.46   | 18.54  |                           |             |
| 10              | QPSK   | 25 | 25 | 18.63  | 18.54  | 18.45  | 18.45 | 18.50   | 18.59  |                           |             |
| 10              | QPSK   | 50 | 0  | 18.55  | 18.79  | 18.60  | 18.79 | 18.55   | 18.58  |                           |             |
| 10              | 16QAM  | 1  | 0  | 18.74  | 18.52  | 18.67  | 18.90 | 18.61   | 18.73  | 19.8                      | 0           |
| 10              | 16QAM  | 1  | 25 | 18.69  | 18.56  | 18.44  | 18.60 | 18.64   | 18.63  |                           |             |
| 10              | 16QAM  | 1  | 49 | 18.74  | 18.48  | 18.61  | 18.69 | 18.72   | 18.53  |                           |             |
| 10              | 16QAM  | 25 | 0  | 18.61  | 18.31  | 18.43  | 18.77 | 18.33   | 18.41  | 19.8                      | 0           |
| 10              | 16QAM  | 25 | 12 | 18.47  | 18.60  | 18.50  | 18.55 | 18.57   | 18.53  |                           |             |
| 10              | 16QAM  | 25 | 25 | 18.56  | 18.42  | 18.49  | 18.37 | 18.48   | 18.52  |                           |             |
| 10              | 16QAM  | 50 | 0  | 18.43  | 18.64  | 18.56  | 18.67 | 18.56   | 18.56  |                           |             |
| 10              | 64QAM  | 1  | 0  | 18.64  | 18.59  | 18.57  | 18.82 | 18.74   | 18.54  | 19.8                      | 0           |
| 10              | 64QAM  | 1  | 25 | 18.61  | 18.54  | 18.49  | 18.55 | 18.65   | 18.61  |                           |             |
| 10              | 64QAM  | 1  | 49 | 18.66  | 18.54  | 18.65  | 18.64 | 18.81   | 18.43  |                           |             |
| 10              | 64QAM  | 25 | 0  | 18.55  | 18.45  | 18.46  | 18.64 | 18.41   | 18.33  | 19.8                      | 0           |
| 10              | 64QAM  | 25 | 12 | 18.43  | 18.45  | 18.42  | 18.53 | 18.37   | 18.47  |                           |             |
| 10              | 64QAM  | 25 | 25 | 18.52  | 18.60  | 18.55  | 18.50 | 18.51   | 18.58  |                           |             |
| 10              | 64QAM  | 50 | 0  | 18.43  | 18.65  | 18.53  | 18.60 | 18.48   | 18.64  |                           |             |
| 10              | 256QAM | 1  | 0  | 17.63  | 17.69  | 17.67  | 17.66 | 17.72   | 17.69  | 19                        | 0.8         |
| 10              | 256QAM | 1  | 25 | 17.65  | 17.63  | 17.63  | 17.64 | 17.69   | 17.63  |                           |             |
| 10              | 256QAM | 1  | 49 | 17.42  | 17.53  | 17.48  | 17.43 | 17.57   | 17.47  |                           |             |
| 10              | 256QAM | 25 | 0  | 17.65  | 17.50  | 17.51  | 17.57 | 17.50   | 17.55  | 19                        | 0.8         |
| 10              | 256QAM | 25 | 12 | 17.69  | 17.76  | 17.82  | 17.68 | 17.71   | 17.73  |                           |             |
| 10              | 256QAM | 25 | 25 | 17.48  | 17.50  | 17.65  | 17.53 | 17.63   | 17.55  |                           |             |
| 10              | 256QAM | 50 | 0  | 17.73  | 17.71  | 17.85  | 17.83 | 17.78   | 17.73  |                           |             |
| Channel         |        |    |    | 39715  | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2502.5 | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 18.67  | 18.52  | 18.75  | 18.75 | 18.84   | 18.76  | 19.80                     | 0           |
| 5               | QPSK   | 1  | 12 | 18.62  | 18.69  | 18.58  | 18.57 | 18.69   | 18.68  |                           |             |
| 5               | QPSK   | 1  | 24 | 18.80  | 18.60  | 18.68  | 18.62 | 18.74   | 18.57  |                           |             |
| 5               | QPSK   | 12 | 0  | 18.64  | 18.49  | 18.45  | 18.74 | 18.47   | 18.45  | 19.8                      | 0           |
| 5               | QPSK   | 12 | 7  | 18.42  | 18.55  | 18.48  | 18.50 | 18.46   | 18.57  |                           |             |
| 5               | QPSK   | 12 | 13 | 18.65  | 18.53  | 18.50  | 18.56 | 18.49   | 18.53  |                           |             |
| 5               | QPSK   | 25 | 0  | 18.47  | 18.81  | 18.60  | 18.82 | 18.55   | 18.67  |                           |             |
| 5               | 16QAM  | 1  | 0  | 18.70  | 18.49  | 18.66  | 18.86 | 18.63   | 18.75  | 19.8                      | 0           |
| 5               | 16QAM  | 1  | 12 | 18.69  | 18.54  | 18.47  | 18.59 | 18.59   | 18.57  |                           |             |
| 5               | 16QAM  | 1  | 24 | 18.79  | 18.47  | 18.65  | 18.70 | 18.67   | 18.45  |                           |             |
| 5               | 16QAM  | 12 | 0  | 18.56  | 18.29  | 18.43  | 18.71 | 18.35   | 18.47  | 19.8                      | 0           |
| 5               | 16QAM  | 12 | 7  | 18.47  | 18.62  | 18.41  | 18.52 | 18.57   | 18.62  |                           |             |
| 5               | 16QAM  | 12 | 13 | 18.57  | 18.44  | 18.46  | 18.39 | 18.45   | 18.55  |                           |             |
| 5               | 16QAM  | 25 | 0  | 18.37  | 18.63  | 18.51  | 18.67 | 18.48   | 18.63  |                           |             |
| 5               | 64QAM  | 1  | 0  | 18.63  | 18.65  | 18.63  | 18.85 | 18.84   | 18.55  | 19.8                      | 0           |
| 5               | 64QAM  | 1  | 12 | 18.61  | 18.62  | 18.46  | 18.55 | 18.71   | 18.57  |                           |             |
| 5               | 64QAM  | 1  | 24 | 18.70  | 18.62  | 18.66  | 18.57 | 18.74   | 18.46  |                           |             |
| 5               | 64QAM  | 12 | 0  | 18.64  | 18.37  | 18.37  | 18.66 | 18.40   | 18.40  | 19.8                      | 0           |
| 5               | 64QAM  | 12 | 7  | 18.44  | 18.56  | 18.51  | 18.42 | 18.40   | 18.55  |                           |             |
| 5               | 64QAM  | 12 | 13 | 18.57  | 18.56  | 18.44  | 18.45 | 18.49   | 18.57  |                           |             |
| 5               | 64QAM  | 25 | 0  | 18.47  | 18.69  | 18.51  | 18.55 | 18.50   | 18.61  |                           |             |