



TEST REPORT

No.23T04Z80206-12

for

OnePlus Technology (Shenzhen) Co., Ltd.

Mobile Phone

Model Name: CPH2611

FCC ID: 2ABZ2-AA560

with

Hardware Version: 11

Software Version: OxygenOS V14.0

Issued Date: 2023-11-22

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
23T04Z80206-12	Rev.0	1 st edition	2023-11-22

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

Location 2: CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, P. R. China 100176

1.3. Testing Environment

Normal Temperature: 15-35℃

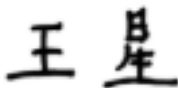
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2023-10-07

Testing End Date: 2023-11-20

1.5. Signature



Wang Xing
(Prepared this test report)



Zhou Yu
(Reviewed this test report)



Zhao Hui Lin
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address /Post: 18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.
Contact: Ariel Cheng
Email: chenglijun1@oppo.com
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2.2. Manufacturer Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address /Post: 18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.
Contact: Ariel Cheng
Email: chenglijun1@oppo.com
Telephone: (86)75561882366

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Mobile Phone
Model Name	CPH2611
FCC ID	2ABZ2-AA560
Antenna	Embedded
Output power	26.25 dBm maximum EIRP measured for LTE B41
Extreme Voltage	6.6VDC to 9VDC (nominal: 7.82VDC)
Extreme Temperature	0°C to +35°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT07a	869135060023854	11	OxygenOS V14.0	2023-09-27
UT13a	869135060026972	11	OxygenOS V14.0	2023-10-07

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID* Description

AE1 Battery

AE1

Model	BLPA33
Manufacturer	Sunwoda Electronic Co., Ltd.
Capacitance	2680mAh/2750mAh(Min/Typ)

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-22 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-22 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-22 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-22 Edition
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE	10-1-22 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01
KDB 940660 D01	CERTIFICATION AND TEST PROCEDURES FOR CITIZENS BROADBAND RADIO SERVICE DEVICES AUTHORIZED UNDER PART 96	v03

5. Summary of Test Result

LTE Band 7

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 12 (17)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 13

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 25 (2)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	24.232	P
2	Emission Limit	2.1051/24.238	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	24.238	P
6	Band Edge Compliance	24.238	P
7	Conducted Spurious Emission	24.238	P
8	Peak-to-Average Power Ratio	24.232	P

LTE Band 26(814MHz~824MHz)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	90.635	P
2	Emission Limit	2.1051/90.691	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	2.1049	P
6	Band Edge Compliance	90.691	P
7	Conducted Spurious Emission	90.691	P

LTE Band 26(824MHz~849MHz) (5)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	22.913	P
2	Emission Limit	2.1051/22.917	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	22.917	P
6	Band Edge Compliance	22.917	P
7	Conducted Spurious Emission	22.917	P

LTE Band 30

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 41 (38)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 48

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	96.41	P
2	Emission Limit	96.41	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	96.41	P
6	Band Edge Compliance	96.41	P
7	Conducted Spurious Emission	96.41	P
8	Peak-to-Average Power Ratio	96.41	P
9	End User Device Additional Requirements (CBSD Protocol)	96.47	P

LTE Band 66 (4)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

LTE Band 71

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
2	Emission Limit	2.1051/27.53	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable. The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.

All the test results are based on normal power.

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

LTE Band 25, Band 66, Band 26, Band 12 and Band 41 overlaps the entire frequency range of LTE Band 2, Band 4, Band 5, Band 17 and Band 38. Therefore, test data provided in this report covers Band 2, Band 4, Band 5, Band 17, Band 38 as well as Band 25, Band 66, Band 26, Band 12, Band 41.

LTE Band 41 is tested by power class 2.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. Output power was measured on QPSK, 16QAM, 64QAM and 256QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.

6. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2024-02-10	13 months
Spectrum Analyzer	FSU	200030	R&S	2024-06-25	13 months
Climate chamber	SH-241	92004642	ESPEC	2024-11-16	13 months
Signal&Spectrum Analyzer	FSW	104038	R&S	2024-07-25	13 months
Test Receiver	FSV30	101525	R&S	2024-02-11	13 months
EMI Antenna	VULB 9163	9163-235	Schwarzbeck	2024-06-10	13 months
EMI Antenna	9117	167	Schwarzbeck	2025-08-03	25 months
EMI Antenna	LB-7180-NF	J203001300005	A-INFO	2024-05-25	13 months
EMI Antenna	3115	00167252	ETS-Lindgren	2024-02-28	13 months
Signal Generator	SMF100A	104940	R&S	2024-01-14	13 months
Universal Radio Communication Tester	MT8821C	62724459649	Anritsu	2024-08-12	13 months
Universal Radio Communication Tester	CMW500	143008	R&S	2024-02-03	13 months

※Note: The Climate chamber with series number of 92004642 is used during the calibration period.

Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

The results below include a correction factor for cable loss that is provided by the customer.

A.1.2.2 Measurement Result

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	22.93	22.15	21.15	18.20
		2535.0	23.12	22.21	21.42	18.24
		2502.5	23.21	22.23	21.35	18.28
	1 RB low	2567.5	22.90	22.10	21.15	18.13
		2535.0	23.04	22.12	21.13	18.25
		2502.5	23.08	22.21	21.43	18.27
	50% RB mid	2567.5	21.93	21.02	19.98	18.07
		2535.0	22.05	21.00	20.10	18.17
		2502.5	22.03	21.12	20.23	18.19
	100% RB	2567.5	21.95	20.96	20.01	18.04
		2535.0	22.06	21.06	20.17	18.15
		2502.5	22.08	21.07	20.15	18.18
10MHz	1 RB high	2565.0	22.94	22.13	21.20	18.17
		2535.0	23.09	22.23	21.36	18.29
		2505.0	23.09	22.18	21.43	18.25
	1 RB low	2565.0	22.93	22.11	21.05	18.19
		2535.0	23.07	22.22	21.14	18.13
		2505.0	23.03	22.09	21.21	18.21
	50% RB mid	2565.0	21.97	21.03	20.06	18.09
		2535.0	22.09	21.16	20.14	18.21
		2505.0	22.13	21.16	20.24	18.28
	100% RB	2565.0	21.97	20.99	20.06	18.07

		2535.0	22.02	21.05	20.09	18.14
		2505.0	22.15	21.17	20.22	18.27
15MHz	1 RB high	2562.5	22.75	21.92	20.95	18.07
		2535.0	22.84	21.93	21.24	18.09
		2507.5	22.93	22.15	21.16	18.09
	1 RB low	2562.5	22.82	21.92	20.90	18.10
		2535.0	22.83	21.99	20.98	17.89
		2507.5	22.88	22.01	21.15	17.91
	50% RB mid	2562.5	21.83	20.89	19.90	17.96
		2535.0	21.97	20.92	20.03	17.97
		2507.5	22.00	21.04	20.06	18.07
	100% RB	2562.5	21.86	20.87	19.97	17.97
		2535.0	21.91	20.93	19.95	18.01
		2507.5	22.01	21.01	20.06	18.13
20MHz	1 RB high	2560.0	22.79	22.02	21.03	18.21
		2535.0	22.87	22.08	21.12	18.26
		2510.0	22.93	22.11	21.17	18.17
	1 RB low	2560.0	22.77	22.14	20.94	18.10
		2535.0	22.82	22.08	20.71	18.10
		2510.0	22.86	22.13	21.05	18.09
	50% RB mid	2560.0	21.90	20.90	19.94	17.99
		2535.0	21.88	20.94	19.94	18.02
		2510.0	22.01	21.01	20.05	18.08
	100% RB	2560.0	21.88	20.87	19.95	17.97
		2535.0	21.92	20.92	19.94	17.95
		2510.0	22.03	21.03	20.08	18.07

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	24.12	23.52	22.19	19.21
		707.5	23.95	23.15	22.29	19.27
		699.7	23.94	23.43	22.36	19.23
	1 RB low	715.3	23.96	23.57	22.51	18.92
		707.5	23.85	23.50	22.28	18.93
		699.7	24.12	23.51	22.19	19.30
	50% RB mid	715.3	24.01	23.13	22.19	18.95
		707.5	24.08	23.18	22.13	19.27
		699.7	24.05	23.24	22.13	19.11
	100% RB	715.3	23.10	22.16	21.06	18.98
		707.5	23.00	22.07	21.11	19.16
		699.7	23.05	22.20	21.00	18.89
3MHz	1 RB high	714.5	24.01	23.23	21.86	19.19
		707.5	23.95	23.35	22.19	18.87
		700.5	23.94	23.45	22.21	19.04
	1 RB low	714.5	24.02	23.45	21.94	19.17
		707.5	23.87	23.33	22.38	18.94
		700.5	24.07	23.37	22.16	19.14
	50% RB mid	714.5	23.05	22.14	21.12	19.03
		707.5	23.13	22.14	21.11	19.13
		700.5	23.13	22.22	21.12	18.98
	100% RB	714.5	22.95	22.02	20.95	19.30
		707.5	23.08	22.13	21.09	19.29
		700.5	23.06	22.13	21.16	19.21
5MHz	1 RB high	713.5	24.06	23.58	22.36	19.18
		707.5	24.05	23.52	22.16	18.99
		701.5	23.98	23.33	22.20	18.86
	1 RB low	713.5	24.11	23.35	22.07	18.86
		707.5	23.97	23.50	22.04	19.18
		701.5	24.07	23.41	22.05	18.93
	50% RB mid	713.5	23.02	22.13	21.05	19.07
		707.5	23.02	22.18	21.10	19.24
		701.5	23.09	22.15	21.16	18.84
	100% RB	713.5	22.98	22.03	20.97	18.88
		707.5	23.09	22.11	21.10	19.16
		701.5	23.09	22.14	21.11	18.95
10MHz	1 RB high	711.0	24.00	23.50	22.16	19.28
		707.5	23.90	23.25	22.20	18.96
		704.0	24.00	23.53	22.16	18.99
	1 RB low	711.0	24.11	23.76	22.22	19.22

		707.5	24.08	23.57	22.23	18.90
		704.0	24.08	23.61	22.35	19.06
	50% RB mid	711.0	23.03	22.11	21.00	19.15
		707.5	23.01	22.06	21.11	19.28
		704.0	23.17	22.15	21.12	19.27
	100% RB	711.0	23.07	22.10	21.09	18.84
		707.5	23.09	22.17	21.08	19.00
		704.0	23.09	22.08	21.09	18.99

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	24.11	23.52	22.21	19.27
		782.0	24.09	23.48	22.46	18.83
		779.5	24.16	23.62	22.17	18.87
	1 RB low	784.5	24.13	23.26	22.43	19.22
		782.0	24.14	23.33	22.26	18.92
		779.5	24.10	23.65	22.19	19.13
	50% RB mid	784.5	23.27	22.28	21.23	18.87
		782.0	23.15	22.23	21.17	19.06
		779.5	23.26	22.29	21.23	18.93
	100% RB	784.5	23.20	22.21	21.27	19.25
		782.0	23.13	22.17	21.05	18.96
		779.5	23.22	22.24	21.26	18.84
10MHz	1 RB high	782.0	24.16	23.56	22.59	19.23
	1 RB low	782.0	24.09	23.64	22.57	19.10
	50% RB mid	782.0	23.10	22.29	21.25	18.91
	100% RB	782.0	23.28	22.09	21.23	19.05

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.87	23.07	22.09	19.10
		1882.5	23.96	23.11	22.08	19.09
		1850.7	24.02	23.15	22.29	19.26
	1 RB low	1914.3	23.91	23.11	22.05	19.12
		1882.5	24.00	23.21	21.85	19.14
		1850.7	24.04	23.18	22.26	19.26
	50% RB mid	1914.3	23.89	23.08	22.11	19.04
		1882.5	23.95	23.19	22.15	19.12
		1850.7	24.02	23.19	22.24	19.10
	100% RB	1914.3	22.87	21.95	21.01	18.99
		1882.5	22.95	22.05	21.03	19.11
		1850.7	23.00	22.15	21.13	19.06
3MHz	1 RB high	1913.5	23.85	22.97	22.30	19.15
		1882.5	23.94	23.13	22.41	19.06
		1851.5	24.02	23.10	22.31	19.33
	1 RB low	1913.5	23.86	23.01	21.74	19.03
		1882.5	23.97	23.15	22.17	19.11
		1851.5	23.98	23.21	22.33	19.20
	50% RB mid	1913.5	22.94	21.98	21.04	19.06
		1882.5	22.99	22.06	21.10	19.13
		1851.5	23.06	22.10	21.20	19.18
	100% RB	1913.5	22.84	21.88	20.96	18.93
		1882.5	23.00	22.04	21.05	19.07
		1851.5	23.06	22.10	21.15	19.11
5MHz	1 RB high	1912.5	23.91	23.10	21.99	19.04
		1882.5	23.94	23.19	22.12	19.24
		1852.5	24.05	23.29	22.17	19.33
	1 RB low	1912.5	23.90	23.07	22.25	19.04
		1882.5	23.93	23.12	22.27	19.18
		1852.5	24.02	23.20	22.36	19.12
	50% RB mid	1912.5	22.94	21.87	21.01	18.96
		1882.5	22.99	21.97	21.10	19.08
		1852.5	23.06	22.12	21.13	19.15
	100% RB	1912.5	22.85	21.86	20.95	18.95
		1882.5	22.96	22.01	21.07	19.05
		1852.5	23.05	22.08	21.16	19.16
10MHz	1 RB high	1910.0	23.94	23.12	22.23	19.14
		1882.5	23.93	23.11	22.35	19.13
		1855.0	24.03	23.24	22.35	19.25
	1 RB low	1910.0	23.93	23.08	22.07	19.09

		1882.5	23.95	23.08	22.11	19.22
		1855.0	24.02	23.22	22.44	19.15
	50% RB mid	1910.0	22.95	21.97	21.01	18.98
		1882.5	22.97	22.04	21.10	19.11
		1855.0	23.03	22.16	21.14	19.14
	100% RB	1910.0	22.89	21.88	20.95	18.96
		1882.5	23.00	22.00	21.07	19.08
		1855.0	23.05	22.08	21.16	19.13
15MHz	1 RB high	1907.5	23.70	22.87	21.99	18.89
		1882.5	23.71	22.86	22.04	18.95
		1857.5	23.88	23.10	22.18	19.06
	1 RB low	1907.5	23.79	22.88	22.21	18.78
		1882.5	23.78	22.85	22.00	18.95
		1857.5	23.83	23.00	22.35	19.03
	50% RB mid	1907.5	22.83	21.88	20.91	18.91
		1882.5	22.86	21.88	20.94	18.93
		1857.5	22.91	21.96	20.99	18.97
	100% RB	1907.5	22.83	21.84	20.97	18.93
		1882.5	22.85	21.86	20.91	18.93
		1857.5	22.89	21.94	20.97	19.01
20MHz	1 RB high	1905.0	23.74	22.98	22.04	19.15
		1882.5	23.76	22.98	22.01	19.09
		1860.0	23.81	23.05	22.16	19.16
	1 RB low	1905.0	23.77	22.95	22.16	18.98
		1882.5	23.74	22.97	22.08	19.07
		1860.0	23.81	23.10	21.94	19.13
	50% RB mid	1905.0	22.82	21.89	20.90	18.95
		1882.5	22.83	21.90	20.93	18.96
		1860.0	22.91	21.96	20.96	19.01
	100% RB	1905.0	22.87	21.89	20.92	18.94
		1882.5	22.86	21.87	20.94	18.94
		1860.0	22.93	21.94	20.98	18.96

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	24.02	23.11	22.09	19.12
		819.0	24.00	23.10	22.29	19.07
		814.7	23.99	23.11	22.07	19.15
	1 RB low	823.3	23.96	23.05	22.34	19.04
		819.0	23.99	23.14	22.24	19.07
		814.7	23.97	23.10	22.10	18.91
	50% RB mid	823.3	24.03	23.19	22.13	19.01
		819.0	24.02	23.15	22.07	19.08
		814.7	23.98	23.16	22.07	18.98
	100% RB	823.3	23.00	22.06	21.02	18.96
		819.0	22.98	22.02	21.01	18.94
		814.7	22.96	22.06	21.02	18.94
3MHz	1 RB high	822.5	23.88	23.07	22.16	19.15
		819.0	23.95	23.12	22.10	19.00
		815.5	23.97	23.13	22.21	19.06
	1 RB low	822.5	23.87	23.05	22.08	19.03
		819.0	23.95	23.07	22.23	18.89
		815.5	23.95	23.10	22.30	18.96
	50% RB mid	822.5	23.03	22.10	21.04	19.10
		819.0	22.99	22.04	20.98	19.05
		815.5	22.97	22.08	21.03	19.04
	100% RB	822.5	23.00	22.06	21.03	19.04
		819.0	22.99	22.02	21.02	18.99
		815.5	22.97	22.02	20.99	18.99
5MHz	1 RB high	821.5	24.08	23.23	22.12	19.17
		819.0	24.04	23.22	22.08	19.19
		816.5	24.00	23.19	22.13	19.06
	1 RB low	821.5	24.07	23.29	22.17	18.98
		819.0	24.03	23.14	22.31	19.09
		816.5	23.97	23.13	22.24	19.00
	50% RB mid	821.5	23.04	22.14	21.10	19.07
		819.0	23.02	22.14	21.04	19.09
		816.5	22.99	22.00	21.04	19.02
	100% RB	821.5	23.03	22.01	21.06	19.00
		819.0	23.02	22.05	21.08	19.02
		816.5	22.99	22.03	21.04	19.04
10MHz	1 RB high	819.0	24.05	23.32	22.40	19.28
	1 RB low	819.0	24.04	23.26	22.21	19.20
	50% RB mid	819.0	24.00	23.17	22.28	19.32
	100% RB	819.0	24.03	23.23	22.30	19.00

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	24.01	23.19	22.05	19.21
		836.5	24.08	23.21	22.30	19.13
		824.7	24.05	23.14	22.20	19.17
	1 RB low	848.3	24.01	23.13	22.15	18.95
		836.5	23.96	23.12	22.03	19.07
		824.7	23.91	23.05	21.95	18.99
	50% RB mid	848.3	24.00	23.14	22.10	19.12
		836.5	24.08	23.10	22.14	19.03
		824.7	24.05	23.26	22.19	19.10
	100% RB	848.3	22.97	22.00	21.04	18.92
		836.5	22.93	21.97	21.00	18.96
		824.7	23.00	22.11	21.07	19.00
3MHz	1 RB high	847.5	23.92	23.09	22.39	19.20
		836.5	23.98	23.17	22.17	19.06
		825.5	23.98	23.12	22.19	19.16
	1 RB low	847.5	23.92	23.12	22.18	18.94
		836.5	24.00	23.19	22.14	19.08
		825.5	24.01	23.19	22.28	18.97
	50% RB mid	847.5	22.97	22.10	21.05	19.02
		836.5	23.03	22.10	21.05	18.98
		825.5	23.04	22.09	21.08	19.08
	100% RB	847.5	22.98	22.01	21.00	19.00
		836.5	22.94	21.99	20.96	18.95
		825.5	23.00	22.07	21.03	19.01
5MHz	1 RB high	846.5	24.04	23.11	22.09	19.14
		836.5	24.10	23.27	22.08	19.14
		826.5	24.11	23.30	22.16	19.13
	1 RB low	846.5	24.05	23.14	22.05	19.00
		836.5	24.10	23.19	22.35	18.97
		826.5	24.10	23.28	22.44	19.13
	50% RB mid	846.5	23.03	22.10	21.02	19.09
		836.5	23.07	22.10	21.10	19.03
		826.5	23.06	22.14	21.11	19.07
	100% RB	846.5	22.99	22.08	21.03	19.06
		836.5	23.01	22.01	21.00	18.97
		826.5	23.05	22.08	21.07	19.04
10MHz	1 RB high	844.0	24.02	23.17	22.23	19.20
		836.5	24.10	23.17	22.22	19.23
		829.0	24.04	23.13	22.25	19.16
	1 RB low	844.0	24.08	23.25	22.40	19.13

		836.5	24.09	23.22	22.29	19.13
		829.0	24.00	23.11	22.19	19.09
	50% RB mid	844.0	23.05	22.13	21.10	19.10
		836.5	23.13	22.11	21.14	19.06
		829.0	23.10	22.14	21.10	19.15
	100% RB	844.0	23.09	22.09	21.07	19.06
		836.5	23.04	22.03	21.04	19.03
		829.0	23.12	22.11	21.14	19.14
15MHz	1 RB high	841.5	23.81	23.00	22.06	19.15
		836.5	23.81	22.92	22.01	19.22
		831.5	23.77	23.07	21.93	19.12
	1 RB low	841.5	23.88	23.09	22.12	19.01
		836.5	23.79	23.07	22.15	19.09
		831.5	23.81	23.02	21.79	18.88
	50% RB mid	841.5	22.98	21.89	20.94	18.88
		836.5	22.95	21.95	20.96	18.89
		831.5	22.96	21.90	20.97	18.90
	100% RB	841.5	22.84	21.91	20.86	18.86
		836.5	22.85	21.94	20.92	18.90
		831.5	22.90	21.88	20.93	18.91

LTE band 30

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2312.5	24.26	23.50	22.27	19.35
		2310.0	24.31	23.54	22.41	19.48
		2307.5	24.29	23.48	22.51	19.43
	1 RB low	2312.5	24.32	23.49	22.58	19.46
		2310.0	24.32	23.52	22.60	19.44
		2307.5	24.27	23.45	22.68	19.36
	50% RB mid	2312.5	23.32	22.46	21.33	19.34
		2310.0	23.29	22.34	21.30	19.35
		2307.5	23.36	22.47	21.30	19.44
	100% RB	2312.5	23.32	22.38	21.32	19.30
		2310.0	23.28	22.28	21.30	19.30
		2307.5	23.35	22.39	21.40	19.41
10MHz	1 RB high	2310.0	24.30	23.48	22.55	19.39
	1 RB low	2310.0	24.28	23.42	22.47	19.27
	50% RB mid	2310.0	23.31	22.33	21.30	19.35
	100% RB	2310.0	23.31	22.33	21.32	19.34

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.50	24.64	23.73	20.64
		2593.0	25.54	24.73	23.81	20.69
		2498.5	25.55	24.71	23.79	20.84
	1 RB low	2687.5	25.49	24.59	23.51	20.61
		2593.0	25.48	24.73	23.66	20.63
		2498.5	25.50	24.67	23.87	20.82
	50% RB mid	2687.5	24.48	23.52	22.56	20.57
		2593.0	24.57	23.64	22.61	20.61
		2498.5	24.60	23.68	22.65	20.68
	100% RB	2687.5	24.47	23.53	22.54	20.56
		2593.0	24.55	23.60	22.59	20.61
		2498.5	24.56	23.59	22.66	20.61
10MHz	1 RB high	2685.0	25.50	24.62	23.67	20.68
		2593.0	25.54	24.73	23.68	20.65
		2501.0	25.55	24.62	23.90	20.78
	1 RB low	2685.0	25.43	24.67	23.72	20.61
		2593.0	25.49	24.60	23.71	20.60
		2501.0	25.51	24.70	24.05	20.57
	50% RB mid	2685.0	24.54	23.56	22.55	20.55
		2593.0	24.59	23.67	22.63	20.63
		2501.0	24.62	23.67	22.68	20.70
	100% RB	2685.0	23.70	22.74	22.58	20.52
		2593.0	23.76	22.77	22.62	20.60
		2501.0	23.81	22.79	22.65	20.67
15MHz	1 RB high	2682.5	25.35	24.46	23.63	20.52
		2593.0	25.42	24.57	23.56	20.65
		2503.5	25.30	24.54	23.72	20.69
	1 RB low	2682.5	25.27	24.35	23.70	20.36
		2593.0	25.32	24.60	23.60	20.55
		2503.5	25.28	24.51	23.50	20.58
	50% RB mid	2682.5	24.41	23.45	22.42	20.40
		2593.0	24.44	23.48	22.53	20.48
		2503.5	24.41	23.48	22.52	20.48
	100% RB	2682.5	23.54	22.58	22.40	20.42
		2593.0	23.61	22.63	22.49	20.48
		2503.5	23.64	22.64	22.51	20.50
20MHz	1 RB high	2680.0	25.41	24.54	23.60	20.74
		2593.0	25.46	24.69	23.72	20.75
		2506.0	25.43	24.70	23.66	20.71
	1 RB low	2680.0	25.33	24.46	23.74	20.55

		2593.0	25.38	24.61	23.23	20.58
		2506.0	25.35	24.65	23.42	20.64
	50% RB mid	2680.0	24.41	23.37	22.39	20.36
		2593.0	24.47	23.48	22.50	20.51
		2506.0	24.45	23.48	22.48	20.51
	100% RB	2680.0	23.51	22.51	22.33	20.33
		2593.0	23.62	22.64	22.48	20.46
		2506.0	23.64	22.68	22.50	20.51

LTE band 48

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	24.12	23.29	22.30	19.35
		3625.0	23.98	23.09	22.14	19.07
		3552.5	24.17	23.36	22.43	19.57
	1 RB low	3697.5	24.06	23.25	22.38	19.18
		3625.0	23.97	23.03	22.20	19.14
		3552.5	24.09	23.23	22.58	19.47
	50% RB mid	3697.5	23.12	22.19	21.17	19.19
		3625.0	22.87	22.01	20.98	19.09
		3552.5	23.23	22.30	21.34	19.34
	100% RB	3697.5	23.11	22.13	21.14	19.13
		3625.0	22.98	21.98	21.02	19.02
		3552.5	23.23	22.21	21.29	19.26
10MHz	1 RB high	3695.0	24.06	23.20	22.24	19.24
		3625.0	23.93	23.23	22.11	19.05
		3555.0	24.19	23.49	22.35	19.42
	1 RB low	3695.0	24.00	23.31	22.24	19.21
		3625.0	23.92	23.15	22.02	19.12
		3555.0	24.12	23.33	22.38	19.36
	50% RB mid	3695.0	23.13	22.16	21.14	19.17
		3625.0	22.93	22.02	20.98	19.07
		3555.0	23.23	22.20	21.26	19.27
	100% RB	3695.0	23.14	22.14	21.15	19.13
		3625.0	23.00	22.02	21.02	19.01
		3555.0	23.18	22.19	21.24	19.24
15MHz	1 RB high	3692.5	23.83	23.02	22.10	19.10
		3625.0	23.75	22.90	22.10	19.04
		3557.5	24.02	23.22	22.18	19.20
	1 RB low	3692.5	23.83	23.07	22.12	19.11
		3625.0	23.67	22.81	22.03	18.92
		3557.5	23.96	23.12	22.15	19.17
	50% RB mid	3692.5	22.92	22.00	20.94	19.00
		3625.0	22.82	21.92	20.83	18.89
		3557.5	23.05	22.14	21.06	19.15
	100% RB	3692.5	22.96	22.00	20.99	18.97
		3625.0	22.85	21.88	20.90	18.90
		3557.5	23.00	22.03	21.05	19.08
20MHz	1 RB high	3690.0	23.90	23.16	22.09	19.23
		3625.0	23.77	23.07	21.97	19.13

		3560.0	23.94	23.13	22.26	19.24
	1 RB low	3690.0	23.87	23.02	21.78	19.13
		3625.0	23.83	23.03	21.76	19.14
		3560.0	23.96	23.23	22.10	19.34
	50% RB mid	3690.0	22.93	22.01	20.92	19.02
		3625.0	22.85	21.90	20.82	18.90
		3560.0	23.08	22.10	21.10	19.11
	100% RB	3690.0	22.97	21.99	21.00	18.99
		3625.0	22.86	21.91	20.90	18.92
		3560.0	23.05	22.08	21.06	19.08

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.91	23.06	22.13	19.05
		1745.0	23.87	22.93	21.96	18.95
		1710.7	23.90	23.01	22.15	19.03
	1 RB low	1779.3	23.82	22.99	21.77	19.02
		1745.0	23.84	22.97	22.06	19.09
		1710.7	23.84	22.90	22.05	18.94
	50% RB mid	1779.3	23.84	22.95	22.08	18.94
		1745.0	23.82	23.00	21.88	18.97
		1710.7	23.85	23.01	21.99	18.96
	100% RB	1779.3	22.83	22.00	21.02	18.95
		1745.0	22.78	21.87	20.81	18.90
		1710.7	22.83	21.92	20.84	18.85
3MHz	1 RB high	1778.5	23.84	22.94	22.04	18.93
		1745.0	23.76	22.95	21.98	18.95
		1711.5	23.79	22.90	22.01	19.06
	1 RB low	1778.5	23.81	22.91	21.89	18.93
		1745.0	23.78	22.97	21.87	18.93
		1711.5	23.83	22.88	22.21	19.04
	50% RB mid	1778.5	22.83	21.94	20.99	19.02
		1745.0	22.81	21.91	20.89	18.96
		1711.5	22.85	21.99	20.93	19.01
	100% RB	1778.5	22.85	21.90	20.96	18.90
		1745.0	22.81	21.82	20.93	18.89
		1711.5	22.86	21.92	20.92	18.93
5MHz	1 RB high	1777.5	23.85	23.05	21.93	19.09
		1745.0	23.81	22.98	21.98	18.96
		1712.5	23.87	23.05	21.84	19.01
	1 RB low	1777.5	23.80	22.97	22.14	18.88
		1745.0	23.75	22.95	22.12	18.96
		1712.5	23.85	23.00	22.01	18.95
	50% RB mid	1777.5	22.87	21.78	20.87	18.87
		1745.0	22.86	21.89	20.90	18.91
		1712.5	22.86	21.97	20.97	18.95
	100% RB	1777.5	22.77	21.77	20.86	18.84
		1745.0	22.81	21.83	20.86	18.91
		1712.5	22.87	21.88	20.90	18.91
10MHz	1 RB high	1775.0	23.86	23.09	22.10	19.04
		1745.0	23.83	22.93	21.97	18.99
		1715.0	23.90	23.02	22.12	19.06
	1 RB low	1775.0	23.79	23.00	21.85	18.95

		1745.0	23.77	22.90	21.90	18.97
		1715.0	23.84	23.05	21.79	18.93
	50% RB mid	1775.0	22.88	21.93	20.94	18.96
		1745.0	22.85	21.92	20.86	18.94
		1715.0	22.90	21.90	20.89	18.95
	100% RB	1775.0	22.86	21.87	20.88	18.92
		1745.0	22.86	21.84	20.88	18.89
		1715.0	22.87	21.91	20.93	18.92
15MHz	1 RB high	1772.5	23.69	22.79	21.94	18.80
		1745.0	23.67	22.87	22.00	18.78
		1717.5	23.77	22.91	22.01	18.84
	1 RB low	1772.5	23.66	22.78	21.71	18.75
		1745.0	23.59	22.74	21.94	18.66
		1717.5	23.78	22.91	22.20	18.75
	50% RB mid	1772.5	22.75	21.76	20.75	18.78
		1745.0	22.74	21.74	20.75	18.76
		1717.5	22.77	21.79	20.76	18.77
	100% RB	1772.5	22.71	21.76	20.75	18.80
		1745.0	22.70	21.75	20.76	18.75
		1717.5	22.76	21.77	20.79	18.80
20MHz	1 RB high	1770.0	23.70	22.95	21.92	19.10
		1745.0	23.74	23.10	21.98	18.88
		1720.0	23.75	22.90	21.95	19.02
	1 RB low	1770.0	23.55	22.81	21.91	18.78
		1745.0	23.62	22.87	21.87	18.91
		1720.0	23.72	23.00	21.66	18.95
	50% RB mid	1770.0	22.75	21.70	20.75	18.70
		1745.0	22.75	21.77	20.75	18.77
		1720.0	22.78	21.78	20.77	18.81
	100% RB	1770.0	22.66	21.65	20.68	18.71
		1745.0	22.74	21.77	20.74	18.77
		1720.0	22.75	21.76	20.77	18.78

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	24.02	23.67	22.03	19.06
		680.5	23.84	23.28	22.15	19.15
		665.5	23.95	23.24	21.16	19.00
	1 RB low	695.5	23.88	23.41	22.15	19.11
		680.5	24.02	23.66	22.09	19.23
		665.5	24.06	23.26	21.11	19.23
	50% RB mid	695.5	23.18	22.35	21.12	19.01
		680.5	22.94	22.18	21.04	19.07
		665.5	22.95	22.16	20.18	19.27
	100% RB	695.5	23.01	22.19	21.11	18.86
		680.5	22.90	22.09	21.05	19.05
		665.5	22.93	22.10	20.10	19.28
10MHz	1 RB high	693.0	24.15	23.64	22.40	18.81
		680.5	23.94	23.44	22.06	18.83
		668.0	23.55	23.07	21.83	19.24
	1 RB low	693.0	24.04	23.65	22.21	18.80
		680.5	23.88	23.37	21.95	18.95
		668.0	23.64	23.12	21.88	18.91
	50% RB mid	693.0	23.15	22.27	21.28	19.08
		680.5	22.97	22.13	21.07	19.14
		668.0	22.75	21.96	20.85	19.15
	100% RB	693.0	23.09	22.27	21.16	18.88
		680.5	22.93	22.02	21.04	19.18
		668.0	22.66	21.83	20.70	18.95
15MHz	1 RB high	690.5	23.93	23.74	22.20	19.27
		680.5	23.98	23.51	22.13	18.99
		670.5	23.76	23.10	21.99	18.83
	1 RB low	690.5	24.03	23.70	22.07	19.04
		680.5	23.92	23.50	22.12	19.27
		670.5	23.70	23.36	21.74	18.83
	50% RB mid	690.5	23.18	22.34	21.25	18.91
		680.5	23.01	22.12	20.98	19.27
		670.5	22.85	21.98	20.89	19.07
	100% RB	690.5	23.05	22.15	21.16	19.05
		680.5	23.01	22.11	21.01	18.88
		670.5	22.85	21.97	20.87	19.00
20MHz	1 RB high	688.0	23.89	23.09	22.08	19.14
		680.5	23.86	22.96	22.15	19.00
		673.0	23.93	23.20	22.07	18.99
	1 RB low	688.0	24.04	23.35	22.26	18.97

		680.5	24.01	23.49	22.23	18.88
		673.0	24.10	23.35	22.29	19.15
	50% RB mid	688.0	23.09	22.11	21.19	18.83
		680.5	23.15	22.21	21.14	19.09
		673.0	23.22	22.12	21.23	19.29
	100% RB	688.0	23.11	22.14	21.14	18.82
		680.5	23.10	22.14	21.07	19.01
		673.0	23.28	22.32	21.18	19.11

LTE CA band 5B

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
3MHz/5MHz	834.1	838.0	QPSK	1	14	1	0	22.84
			QPSK	15	0	25	0	22.96
			16QAM	1	14	1	0	22.79
			16QAM	15	0	25	0	22.66
			64QAM	1	14	1	0	21.89
			64QAM	15	0	25	0	21.89
			256QAM	1	14	1	0	20.86
			256QAM	15	0	25	0	20.95
5MHz/3MHz	835.0	838.9	QPSK	1	24	1	0	22.92
			QPSK	25	0	15	0	22.96
			16QAM	1	24	1	0	22.81
			16QAM	25	0	15	0	22.65
			64QAM	1	24	1	0	21.78
			64QAM	25	0	15	0	21.80
			256QAM	1	24	1	0	20.75
			256QAM	25	0	15	0	20.84
5MHz/10MHz	831.8	839.0	QPSK	1	24	1	0	22.83
			QPSK	25	0	50	0	20.81
			16QAM	1	24	1	0	21.75
			16QAM	25	0	50	0	19.82
			64QAM	1	24	1	0	20.69
			64QAM	25	0	50	0	19.83
			256QAM	1	24	1	0	17.77
			256QAM	25	0	50	0	17.82
10MHz/5MHz	834.0	841.2	QPSK	1	49	1	0	22.68
			QPSK	50	0	25	0	20.84
			16QAM	1	49	1	0	21.60
			16QAM	50	0	25	0	19.83
			64QAM	1	49	1	0	20.80
			64QAM	50	0	25	0	19.83
			256QAM	1	49	1	0	17.71
			256QAM	50	0	25	0	17.83
10MHz/10MHz	831.6	841.5	QPSK	1	49	1	0	22.70
			QPSK	50	0	50	0	20.88
			16QAM	1	49	1	0	21.66
			16QAM	50	0	50	0	19.82
			64QAM	1	49	1	0	20.73
			64QAM	50	0	50	0	19.89
			256QAM	1	49	1	0	17.69



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			256QAM	50	0	50	0	17.88
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LTE CA band 7C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
10MHz/20MHz	2525.6	2540.0	QPSK	1	49	1	0	22.73
			QPSK	50	0	100	0	20.80
			16QAM	1	49	1	0	21.72
			16QAM	50	0	100	0	19.85
			64QAM	1	49	1	0	20.76
			64QAM	50	0	100	0	19.79
			256QAM	1	49	1	0	17.76
			256QAM	50	0	100	0	17.79
15MHz/10MHz	2530.1	2542.1	QPSK	1	74	1	0	22.76
			QPSK	75	0	50	0	20.81
			16QAM	1	74	1	0	21.75
			16QAM	75	0	50	0	19.84
			64QAM	1	74	1	0	20.86
			64QAM	75	0	50	0	19.83
			256QAM	1	74	1	0	17.70
			256QAM	75	0	50	0	17.83
15MHz/15MHz	2527.5	2542.5	QPSK	1	74	1	0	22.75
			QPSK	75	0	75	0	20.82
			16QAM	1	74	1	0	21.70
			16QAM	75	0	75	0	19.86
			64QAM	1	74	1	0	20.81
			64QAM	75	0	75	0	19.89
			256QAM	1	74	1	0	17.72
			256QAM	75	0	75	0	17.85
15MHz/20MHz	2525.3	2542.4	QPSK	1	74	1	0	22.78
			QPSK	75	0	100	0	20.80
			16QAM	1	74	1	0	21.69
			16QAM	75	0	100	0	19.83
			64QAM	1	74	1	0	20.76
			64QAM	75	0	100	0	19.85
			256QAM	1	74	1	0	17.78
			256QAM	75	0	100	0	17.83
20MHz/10MHz	2530.1	2544.5	QPSK	1	99	1	0	22.78
			QPSK	100	0	50	0	20.81
			16QAM	1	99	1	0	21.75
			16QAM	100	0	50	0	19.86
			64QAM	1	99	1	0	20.78
			64QAM	100	0	50	0	19.85
			256QAM	1	99	1	0	17.78

			256QAM	100	0	50	0	17.82
20MHz/15MHz Z	2527.6	2544.7	QPSK	1	99	1	0	22.73
			QPSK	100	0	75	0	20.85
			16QAM	1	99	1	0	21.57
			16QAM	100	0	75	0	19.84
			64QAM	1	99	1	0	20.80
			64QAM	100	0	75	0	19.86
			256QAM	1	99	1	0	17.80
			256QAM	100	0	75	0	17.84
20MHz/20MHz Z	2525.1	2544.9	QPSK	1	99	1	0	22.75
			QPSK	100	0	100	0	20.83
			16QAM	1	99	1	0	21.72
			16QAM	100	0	100	0	19.85
			64QAM	1	99	1	0	20.86
			64QAM	100	0	100	0	19.81
			256QAM	1	99	1	0	17.71
			256QAM	100	0	100	0	17.83

LTE CA band 41C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	25.40
			QPSK	25	0	100	0	23.41
			16QAM	1	24	1	0	23.90
			16QAM	25	0	100	0	22.41
			64QAM	1	24	1	0	23.44
			64QAM	25	0	100	0	22.39
			256QAM	1	24	1	0	20.49
			256QAM	25	0	100	0	20.40
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	25.39
			QPSK	50	0	75	0	23.42
			16QAM	1	49	1	0	23.87
			16QAM	50	0	75	0	22.39
			64QAM	1	49	1	0	23.40
			64QAM	50	0	75	0	22.39
			256QAM	1	49	1	0	20.31
			256QAM	50	0	75	0	20.41
10MHz/20MHz	2583.6	2598.0	QPSK	1	49	1	0	25.39
			QPSK	50	0	100	0	23.45
			16QAM	1	49	1	0	23.88
			16QAM	50	0	100	0	22.43
			64QAM	1	49	1	0	23.36
			64QAM	50	0	100	0	22.42
			256QAM	1	49	1	0	20.45
			256QAM	50	0	100	0	20.45
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	25.41
			QPSK	75	0	50	0	23.45
			16QAM	1	74	1	0	23.80
			16QAM	75	0	50	0	22.47
			64QAM	1	74	1	0	23.44
			64QAM	75	0	50	0	22.46
			256QAM	1	74	1	0	20.34
			256QAM	75	0	50	0	20.45
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	25.39
			QPSK	75	0	75	0	23.45
			16QAM	1	74	1	0	23.85
			16QAM	75	0	75	0	22.43
			64QAM	1	74	1	0	23.44
			64QAM	75	0	75	0	22.46
			256QAM	1	74	1	0	20.26

			256QAM	75	0	75	0	20.46
15MHz/20MHz Z	2583.3	2600.4	QPSK	1	74	1	0	25.42
			QPSK	75	0	100	0	23.46
			16QAM	1	74	1	0	23.85
			16QAM	75	0	100	0	22.45
			64QAM	1	74	1	0	23.54
			64QAM	75	0	100	0	22.43
			256QAM	1	74	1	0	20.36
			256QAM	75	0	100	0	20.43
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	25.46
			QPSK	100	0	25	0	23.46
			16QAM	1	99	1	0	23.91
			16QAM	100	0	25	0	22.48
			64QAM	1	99	1	0	23.42
			64QAM	100	0	25	0	22.45
			256QAM	1	99	1	0	20.35
			256QAM	100	0	25	0	20.44
20MHz/10MHz Z	2588.1	2602.5	QPSK	1	99	1	0	25.44
			QPSK	100	0	50	0	23.48
			16QAM	1	99	1	0	23.92
			16QAM	100	0	50	0	22.50
			64QAM	1	99	1	0	23.46
			64QAM	100	0	50	0	22.50
			256QAM	1	99	1	0	20.39
			256QAM	100	0	50	0	20.49
20MHz/15MHz Z	2585.6	2602.7	QPSK	1	99	1	0	25.43
			QPSK	100	0	75	0	23.49
			16QAM	1	99	1	0	23.96
			16QAM	100	0	75	0	22.49
			64QAM	1	99	1	0	23.43
			64QAM	100	0	75	0	22.52
			256QAM	1	99	1	0	20.26
			256QAM	100	0	75	0	20.49
20MHz/20MHz Z	2583.1	2602.9	QPSK	1	99	1	0	25.42
			QPSK	100	0	100	0	23.51
			16QAM	1	99	1	0	23.84
			16QAM	100	0	100	0	22.50
			64QAM	1	99	1	0	23.48
			64QAM	100	0	100	0	22.45
			256QAM	1	99	1	0	20.35
			256QAM	100	0	100	0	20.49

LTE CA band 48C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	3615.8	3627.5	QPSK	1	24	1	0	23.60
			QPSK	25	0	100	0	21.65
			16QAM	1	24	1	0	22.60
			16QAM	25	0	100	0	20.62
			64QAM	1	24	1	0	21.60
			64QAM	25	0	100	0	20.63
			256QAM	1	24	1	0	18.56
			256QAM	25	0	100	0	18.66
10MHz/20MHz	3615.6	3630.0	QPSK	1	49	1	0	23.53
			QPSK	50	0	100	0	21.62
			16QAM	1	49	1	0	22.48
			16QAM	50	0	100	0	20.65
			64QAM	1	49	1	0	21.54
			64QAM	50	0	100	0	20.68
			256QAM	1	49	1	0	18.52
			256QAM	50	0	100	0	18.66
15MHz/20MHz	3615.3	3632.4	QPSK	1	74	1	0	23.51
			QPSK	75	0	100	0	21.64
			16QAM	1	74	1	0	22.46
			16QAM	75	0	100	0	20.62
			64QAM	1	74	1	0	21.49
			64QAM	75	0	100	0	20.61
			256QAM	1	74	1	0	18.43
			256QAM	75	0	100	0	18.66
20MHz/5MHz	3622.5	3634.2	QPSK	1	99	1	0	23.54
			QPSK	100	0	25	0	21.60
			16QAM	1	99	1	0	22.43
			16QAM	100	0	25	0	20.62
			64QAM	1	99	1	0	21.56
			64QAM	100	0	25	0	20.61
			256QAM	1	99	1	0	18.50
			256QAM	100	0	25	0	18.60
20MHz/10MHz	3620.1	3634.5	QPSK	1	99	1	0	23.53
			QPSK	100	0	50	0	21.63
			16QAM	1	99	1	0	22.45
			16QAM	100	0	50	0	20.62
			64QAM	1	99	1	0	21.58
			64QAM	100	0	50	0	20.63
			256QAM	1	99	1	0	18.49

			256QAM	100	0	50	0	18.63
20MHz/15MHz Z	3617.6	3634.7	QPSK	1	99	1	0	23.51
			QPSK	100	0	75	0	21.61
			16QAM	1	99	1	0	22.37
			16QAM	100	0	75	0	20.62
			64QAM	1	99	1	0	21.51
			64QAM	100	0	75	0	20.63
			256QAM	1	99	1	0	18.40
			256QAM	100	0	75	0	18.62
20MHz/20MHz Z	3615.1	3634.9	QPSK	1	99	1	0	23.47
			QPSK	100	0	100	0	21.59
			16QAM	1	99	1	0	22.49
			16QAM	100	0	100	0	20.58
			64QAM	1	99	1	0	21.49
			64QAM	100	0	100	0	20.63
			256QAM	1	99	1	0	18.40
			256QAM	100	0	100	0	18.63

LTE CA band 66B

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/5MHz	1752.6	1757.4	QPSK	1	24	1	0	22.76
			QPSK	25	0	25	0	20.83
			16QAM	1	24	1	0	21.72
			16QAM	25	0	25	0	19.80
			64QAM	1	24	1	0	20.77
			64QAM	25	0	25	0	19.79
			256QAM	1	24	1	0	17.74
			256QAM	25	0	25	0	17.80
5MHz/10MHz	1750.3	1757.5	QPSK	1	24	1	0	22.69
			QPSK	25	0	50	0	20.71
			16QAM	1	24	1	0	21.68
			16QAM	25	0	50	0	19.67
			64QAM	1	24	1	0	20.69
			64QAM	25	0	50	0	19.77
			256QAM	1	24	1	0	17.70
			256QAM	25	0	50	0	17.68
5MHz/15MHz	1748.1	1757.4	QPSK	1	24	1	0	22.72
			QPSK	25	0	75	0	20.73
			16QAM	1	24	1	0	21.77
			16QAM	25	0	75	0	19.74
			64QAM	1	24	1	0	20.76
			64QAM	25	0	75	0	19.69
			256QAM	1	24	1	0	17.77
			256QAM	25	0	75	0	17.66
10MHz/5MHz	1752.5	1759.7	QPSK	1	49	1	0	22.64
			QPSK	50	0	25	0	20.73
			16QAM	1	49	1	0	21.64
			16QAM	50	0	25	0	19.78
			64QAM	1	49	1	0	20.81
			64QAM	50	0	25	0	19.75
			256QAM	1	49	1	0	17.63
			256QAM	50	0	25	0	17.67
10MHz/10MHz	1750.1	1760.0	QPSK	1	49	1	0	22.62
			QPSK	50	0	50	0	20.73
			16QAM	1	49	1	0	21.64
			16QAM	50	0	50	0	19.77
			64QAM	1	49	1	0	20.65
			64QAM	50	0	50	0	19.74
			256QAM	1	49	1	0	17.58

			256QAM	50	0	50	0	17.67
15MHz/5MHz	1752.6	1761.9	QPSK	1	74	1	0	22.69
			QPSK	75	0	25	0	20.72
			16QAM	1	74	1	0	21.72
			16QAM	75	0	25	0	19.76
			64QAM	1	74	1	0	20.72
			64QAM	75	0	25	0	19.71
			256QAM	1	74	1	0	17.62
			256QAM	75	0	25	0	17.71

LTE CA band 66C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	1745.8	1757.5	QPSK	1	24	1	0	22.81
			QPSK	25	0	100	0	20.73
			16QAM	1	24	1	0	21.73
			16QAM	25	0	100	0	19.72
			64QAM	1	24	1	0	20.78
			64QAM	25	0	100	0	19.72
			256QAM	1	24	1	0	17.69
			256QAM	25	0	100	0	17.68
10MHz/15MHz	1747.9	1759.9	QPSK	1	49	1	0	22.65
			QPSK	50	0	75	0	20.73
			16QAM	1	49	1	0	21.65
			16QAM	50	0	75	0	19.71
			64QAM	1	49	1	0	20.67
			64QAM	50	0	75	0	19.71
			256QAM	1	49	1	0	17.55
			256QAM	50	0	75	0	17.66
10MHz/20MHz	1745.6	1760.0	QPSK	1	49	1	0	22.66
			QPSK	50	0	100	0	20.72
			16QAM	1	49	1	0	21.73
			16QAM	50	0	100	0	19.76
			64QAM	1	49	1	0	20.72
			64QAM	50	0	100	0	19.71
			256QAM	1	49	1	0	17.62
			256QAM	50	0	100	0	17.72
15MHz/10MHz	1750.1	1762.1	QPSK	1	74	1	0	22.67
			QPSK	75	0	50	0	20.74
			16QAM	1	74	1	0	21.61
			16QAM	75	0	50	0	19.72
			64QAM	1	74	1	0	20.60
			64QAM	75	0	50	0	19.69
			256QAM	1	74	1	0	17.59
			256QAM	75	0	50	0	17.73
15MHz/15MHz	1747.5	1762.5	QPSK	1	74	1	0	22.61
			QPSK	75	0	75	0	20.79
			16QAM	1	74	1	0	21.71
			16QAM	75	0	75	0	19.74
			64QAM	1	74	1	0	20.47
			64QAM	75	0	75	0	19.73
			256QAM	1	74	1	0	17.65

			256QAM	75	0	75	0	17.68
15MHz/20MHz Z	1745.3	1762.4	QPSK	1	74	1	0	22.68
			QPSK	75	0	100	0	20.72
			16QAM	1	74	1	0	21.57
			16QAM	75	0	100	0	19.79
			64QAM	1	74	1	0	20.72
			64QAM	75	0	100	0	19.77
			256QAM	1	74	1	0	17.61
			256QAM	75	0	100	0	17.72
20MHz/5MHz	1752.5	1764.2	QPSK	1	99	1	0	22.65
			QPSK	100	0	25	0	20.73
			16QAM	1	99	1	0	21.48
			16QAM	100	0	25	0	19.73
			64QAM	1	99	1	0	20.59
			64QAM	100	0	25	0	19.72
			256QAM	1	99	1	0	17.51
			256QAM	100	0	25	0	17.71
20MHz/10MHz Z	1750.1	1764.5	QPSK	1	99	1	0	22.64
			QPSK	100	0	50	0	20.75
			16QAM	1	99	1	0	21.56
			16QAM	100	0	50	0	19.71
			64QAM	1	99	1	0	20.65
			64QAM	100	0	50	0	19.77
			256QAM	1	99	1	0	17.61
			256QAM	100	0	50	0	17.72
20MHz/15MHz Z	1747.6	1764.7	QPSK	1	99	1	0	22.63
			QPSK	100	0	75	0	20.71
			16QAM	1	99	1	0	21.53
			16QAM	100	0	75	0	19.72
			64QAM	1	99	1	0	20.64
			64QAM	100	0	75	0	19.76
			256QAM	1	99	1	0	17.53
			256QAM	100	0	75	0	17.71
20MHz/20MHz Z	1745.1	1764.9	QPSK	1	99	1	0	22.66
			QPSK	100	0	100	0	20.75
			16QAM	1	99	1	0	21.51
			16QAM	100	0	100	0	19.72
			64QAM	1	99	1	0	20.57
			64QAM	100	0	100	0	19.72
			256QAM	1	99	1	0	17.49
			256QAM	100	0	100	0	17.75

A.1.3 Radiated

A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

FDD Band 7/TDD Band 38/41: Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

FDD Band 12/71: Part 27.50(c)(10) specifies "Portable stations(hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP".

FDD Band 13: Part 27.50(b) specifies "Portable stations(hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP".

FDD Band 2/25: Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

LTE Band 26(814MHz~824MHz): Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts".

FDD Band 5/26(824MHz~849MHz): Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

FDD Band 30: Part 27.50(a) specifies "For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth". TDD Band 48: Part 96.41(b) specifies the maximum effective isotropic radiated power(EIRP) of any End User Device must comply with the limits of 23dBm/10MHz".

FDD Band 4/66: Part 27.50(d)(4) specifies "Fixed, mobile, and portable(handheld) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP".

A.1.3.2 Method of Measurement

According to KDB 412172 D01 and ANSI C63.26 the relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{ERP or EIRP} = P_T + G_T - L_C$$

where;

- **ERP or EIRP** = effective radiated power or equivalent isotropically radiated power(expressed in the same units as P_T).
- P_T = transmitter output power, in this report the unit express as dBm;
- G_T = gain of the transmitting antenna, in dBd(ERP) or dBi(EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

Alternatively, the EIRP can be determined from Equation above and then converted to ERP based on the maximum antenna gain relationship by applying the following equation:

$$\text{ERP} = \text{EIRP} - 2.15\text{dB}$$



Note: The antenna gain information was provided by the client. The laboratory is not responsible for identifying its authenticity during the test.

A.1.3.3 Limits and Measurement Results

LTE Band 7-EIRP

Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-1.3)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	22.93	22.15	21.15	18.20	21.63	20.85	19.85	16.90
		2535.0	23.12	22.21	21.42	18.24	21.82	20.91	20.12	16.94
		2502.5	23.21	22.23	21.35	18.28	21.91	20.93	20.05	16.98
	1 RB low	2567.5	22.90	22.10	21.15	18.13	21.60	20.80	19.85	16.83
		2535.0	23.04	22.12	21.13	18.25	21.74	20.82	19.83	16.95
		2502.5	23.08	22.21	21.43	18.27	21.78	20.91	20.13	16.97
	50% RB mid	2567.5	21.93	21.02	19.98	18.07	20.63	19.72	18.68	16.77
		2535.0	22.05	21.00	20.10	18.17	20.75	19.70	18.80	16.87
		2502.5	22.03	21.12	20.23	18.19	20.73	19.82	18.93	16.89
	100% RB	2567.5	21.95	20.96	20.01	18.04	20.65	19.66	18.71	16.74
		2535.0	22.06	21.06	20.17	18.15	20.76	19.76	18.87	16.85
		2502.5	22.08	21.07	20.15	18.18	20.78	19.77	18.85	16.88
10MHz	1 RB high	2565.0	22.94	22.13	21.20	18.17	21.64	20.83	19.90	16.87
		2535.0	23.09	22.23	21.36	18.29	21.79	20.93	20.06	16.99
		2505.0	23.09	22.18	21.43	18.25	21.79	20.88	20.13	16.95
	1 RB low	2565.0	22.93	22.11	21.05	18.19	21.63	20.81	19.75	16.89
		2535.0	23.07	22.22	21.14	18.13	21.77	20.92	19.84	16.83
		2505.0	23.03	22.09	21.21	18.21	21.73	20.79	19.91	16.91
	50% RB mid	2565.0	21.97	21.03	20.06	18.09	20.67	19.73	18.76	16.79
		2535.0	22.09	21.16	20.14	18.21	20.79	19.86	18.84	16.91
		2505.0	22.13	21.16	20.24	18.28	20.83	19.86	18.94	16.98
	100% RB	2565.0	21.97	20.99	20.06	18.07	20.67	19.69	18.76	16.77
		2535.0	22.02	21.05	20.09	18.14	20.72	19.75	18.79	16.84
		2505.0	22.15	21.17	20.22	18.27	20.85	19.87	18.92	16.97
15MHz	1 RB high	2562.5	22.75	21.92	20.95	18.07	21.45	20.62	19.65	16.77
		2535.0	22.84	21.93	21.24	18.09	21.54	20.63	19.94	16.79
		2507.5	22.93	22.15	21.16	18.09	21.63	20.85	19.86	16.79
	1 RB low	2562.5	22.82	21.92	20.90	18.10	21.52	20.62	19.60	16.80
		2535.0	22.83	21.99	20.98	17.89	21.53	20.69	19.68	16.59
		2507.5	22.88	22.01	21.15	17.91	21.58	20.71	19.85	16.61
	50% RB mid	2562.5	21.83	20.89	19.90	17.96	20.53	19.59	18.60	16.66
		2535.0	21.97	20.92	20.03	17.97	20.67	19.62	18.73	16.67
		2507.5	22.00	21.04	20.06	18.07	20.70	19.74	18.76	16.77
	100% RB	2562.5	21.86	20.87	19.97	17.97	20.56	19.57	18.67	16.67
		2535.0	21.91	20.93	19.95	18.01	20.61	19.63	18.65	16.71
		2507.5	22.01	21.01	20.06	18.13	20.71	19.71	18.76	16.83
20MHz	1 RB high	2560.0	22.79	22.02	21.03	18.21	21.49	20.72	19.73	16.91
		2535.0	22.87	22.08	21.12	18.26	21.57	20.78	19.82	16.96

		2510.0	22.93	22.11	21.17	18.17	21.63	20.81	19.87	16.87
	1 RB low	2560.0	22.77	22.14	20.94	18.10	21.47	20.84	19.64	16.80
		2535.0	22.82	22.08	20.71	18.10	21.52	20.78	19.41	16.80
		2510.0	22.86	22.13	21.05	18.09	21.56	20.83	19.75	16.79
	50% RB mid	2560.0	21.90	20.90	19.94	17.99	20.60	19.60	18.64	16.69
		2535.0	21.88	20.94	19.94	18.02	20.58	19.64	18.64	16.72
		2510.0	22.01	21.01	20.05	18.08	20.71	19.71	18.75	16.78
	100% RB	2560.0	21.88	20.87	19.95	17.97	20.58	19.57	18.65	16.67
		2535.0	21.92	20.92	19.94	17.95	20.62	19.62	18.64	16.65
		2510.0	22.03	21.03	20.08	18.07	20.73	19.73	18.78	16.77

LTE Band 12-ERP

Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-5.5)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	24.12	23.52	22.19	19.21	16.47	15.87	14.54	14.54
		707.5	23.95	23.15	22.29	19.27	16.30	15.50	14.64	14.64
		699.7	23.94	23.43	22.36	19.23	16.29	15.78	14.71	14.71
	1 RB low	715.3	23.96	23.57	22.51	18.92	16.31	15.92	14.86	14.86
		707.5	23.85	23.50	22.28	18.93	16.20	15.85	14.63	14.63
		699.7	24.12	23.51	22.19	19.30	16.47	15.86	14.54	14.54
	50% RB mid	715.3	24.01	23.13	22.19	18.95	16.36	15.48	14.54	14.54
		707.5	24.08	23.18	22.13	19.27	16.43	15.53	14.48	14.48
		699.7	24.05	23.24	22.13	19.11	16.40	15.59	14.48	14.48
	100% RB	715.3	23.10	22.16	21.06	18.98	15.45	14.51	13.41	13.41
		707.5	23.00	22.07	21.11	19.16	15.35	14.42	13.46	13.46
		699.7	23.05	22.20	21.00	18.89	15.40	14.55	13.35	13.35
3MHz	1 RB high	714.5	24.01	23.23	21.86	19.19	16.36	15.58	14.21	14.21
		707.5	23.95	23.35	22.19	18.87	16.30	15.70	14.54	14.54
		700.5	23.94	23.45	22.21	19.04	16.29	15.80	14.56	14.56
	1 RB low	714.5	24.02	23.45	21.94	19.17	16.37	15.80	14.29	14.29
		707.5	23.87	23.33	22.38	18.94	16.22	15.68	14.73	14.73
		700.5	24.07	23.37	22.16	19.14	16.42	15.72	14.51	14.51
	50% RB mid	714.5	23.05	22.14	21.12	19.03	15.40	14.49	13.47	13.47
		707.5	23.13	22.14	21.11	19.13	15.48	14.49	13.46	13.46
		700.5	23.13	22.22	21.12	18.98	15.48	14.57	13.47	13.47
	100% RB	714.5	22.95	22.02	20.95	19.30	15.30	14.37	13.30	13.30
		707.5	23.08	22.13	21.09	19.29	15.43	14.48	13.44	13.44
		700.5	23.06	22.13	21.16	19.21	15.41	14.48	13.51	13.51
5MHz	1 RB high	713.5	24.06	23.58	22.36	19.18	16.41	15.93	14.71	14.71
		707.5	24.05	23.52	22.16	18.99	16.40	15.87	14.51	14.51
		701.5	23.98	23.33	22.20	18.86	16.33	15.68	14.55	14.55
	1 RB low	713.5	24.11	23.35	22.07	18.86	16.46	15.70	14.42	14.42
		707.5	23.97	23.50	22.04	19.18	16.32	15.85	14.39	14.39
		701.5	24.07	23.41	22.05	18.93	16.42	15.76	14.40	14.40
	50% RB mid	713.5	23.02	22.13	21.05	19.07	15.37	14.48	13.40	13.40
		707.5	23.02	22.18	21.10	19.24	15.37	14.53	13.45	13.45
		701.5	23.09	22.15	21.16	18.84	15.44	14.50	13.51	13.51
	100% RB	713.5	22.98	22.03	20.97	18.88	15.33	14.38	13.32	13.32
		707.5	23.09	22.11	21.10	19.16	15.44	14.46	13.45	13.45
		701.5	23.09	22.14	21.11	18.95	15.44	14.49	13.46	13.46
10MHz	1 RB high	711.0	24.00	23.50	22.16	19.28	16.35	15.85	14.51	14.51
		707.5	23.90	23.25	22.20	18.96	16.25	15.60	14.55	14.55
		704.0	24.00	23.53	22.16	18.99	16.35	15.88	14.51	14.51

	1 RB low	711.0	24.11	23.76	22.22	19.22	16.46	16.11	14.57	14.57
		707.5	24.08	23.57	22.23	18.90	16.43	15.92	14.58	14.58
		704.0	24.08	23.61	22.35	19.06	16.43	15.96	14.70	14.70
	50% RB mid	711.0	23.03	22.11	21.00	19.15	15.38	14.46	13.35	13.35
		707.5	23.01	22.06	21.11	19.28	15.36	14.41	13.46	13.46
		704.0	23.17	22.15	21.12	19.27	15.52	14.50	13.47	13.47
	100% RB	711.0	23.07	22.10	21.09	18.84	15.42	14.45	13.44	13.44
		707.5	23.09	22.17	21.08	19.00	15.44	14.52	13.43	13.43
		704.0	23.09	22.08	21.09	18.99	15.44	14.43	13.44	13.44

LTE Band 13-ERP

Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-5.5)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	24.11	23.52	22.21	19.27	16.46	15.87	14.56	14.56
		782.0	24.09	23.48	22.46	18.83	16.44	15.83	14.81	14.81
		779.5	24.16	23.62	22.17	18.87	16.51	15.97	14.52	14.52
	1 RB low	784.5	24.13	23.26	22.43	19.22	16.48	15.61	14.78	14.78
		782.0	24.14	23.33	22.26	18.92	16.49	15.68	14.61	14.61
		779.5	24.10	23.65	22.19	19.13	16.45	16.00	14.54	14.54
	50% RB mid	784.5	23.27	22.28	21.23	18.87	15.62	14.63	13.58	13.58
		782.0	23.15	22.23	21.17	19.06	15.50	14.58	13.52	13.52
		779.5	23.26	22.29	21.23	18.93	15.61	14.64	13.58	13.58
	100% RB	784.5	23.20	22.21	21.27	19.25	15.55	14.56	13.62	13.62
		782.0	23.13	22.17	21.05	18.96	15.48	14.52	13.40	13.40
		779.5	23.22	22.24	21.26	18.84	15.57	14.59	13.61	13.61
10MHz	1 RB high	782.0	24.16	23.56	22.59	19.23	16.51	15.91	14.94	14.94
	1 RB low	782.0	24.09	23.64	22.57	19.10	16.44	15.99	14.92	14.92
	50% RB mid	782.0	23.10	22.29	21.25	18.91	15.45	14.64	13.60	13.60
	100% RB	782.0	23.28	22.09	21.23	19.05	15.63	14.44	13.58	13.58

LTE Band 25-EIRP

Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =0)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.87	23.07	22.09	19.10	23.87	23.07	22.09	19.10
		1882.5	23.96	23.11	22.08	19.09	23.96	23.11	22.08	19.09
		1850.7	24.02	23.15	22.29	19.26	24.02	23.15	22.29	19.26
	1 RB low	1914.3	23.91	23.11	22.05	19.12	23.91	23.11	22.05	19.12
		1882.5	24.00	23.21	21.85	19.14	24.00	23.21	21.85	19.14
		1850.7	24.04	23.18	22.26	19.26	24.04	23.18	22.26	19.26
	50% RB mid	1914.3	23.89	23.08	22.11	19.04	23.89	23.08	22.11	19.04
		1882.5	23.95	23.19	22.15	19.12	23.95	23.19	22.15	19.12
		1850.7	24.02	23.19	22.24	19.10	24.02	23.19	22.24	19.10
	100% RB	1914.3	22.87	21.95	21.01	18.99	22.87	21.95	21.01	18.99
		1882.5	22.95	22.05	21.03	19.11	22.95	22.05	21.03	19.11
		1850.7	23.00	22.15	21.13	19.06	23.00	22.15	21.13	19.06
3MHz	1 RB high	1913.5	23.85	22.97	22.30	19.15	23.85	22.97	22.30	19.15
		1882.5	23.94	23.13	22.41	19.06	23.94	23.13	22.41	19.06
		1851.5	24.02	23.10	22.31	19.33	24.02	23.10	22.31	19.33
	1 RB low	1913.5	23.86	23.01	21.74	19.03	23.86	23.01	21.74	19.03
		1882.5	23.97	23.15	22.17	19.11	23.97	23.15	22.17	19.11
		1851.5	23.98	23.21	22.33	19.20	23.98	23.21	22.33	19.20
	50% RB mid	1913.5	22.94	21.98	21.04	19.06	22.94	21.98	21.04	19.06
		1882.5	22.99	22.06	21.10	19.13	22.99	22.06	21.10	19.13
		1851.5	23.06	22.10	21.20	19.18	23.06	22.10	21.20	19.18
	100% RB	1913.5	22.84	21.88	20.96	18.93	22.84	21.88	20.96	18.93
		1882.5	23.00	22.04	21.05	19.07	23.00	22.04	21.05	19.07
		1851.5	23.06	22.10	21.15	19.11	23.06	22.10	21.15	19.11
5MHz	1 RB high	1912.5	23.91	23.10	21.99	19.04	23.91	23.10	21.99	19.04
		1882.5	23.94	23.19	22.12	19.24	23.94	23.19	22.12	19.24
		1852.5	24.05	23.29	22.17	19.33	24.05	23.29	22.17	19.33
	1 RB low	1912.5	23.90	23.07	22.25	19.04	23.90	23.07	22.25	19.04
		1882.5	23.93	23.12	22.27	19.18	23.93	23.12	22.27	19.18
		1852.5	24.02	23.20	22.36	19.12	24.02	23.20	22.36	19.12
	50% RB mid	1912.5	22.94	21.87	21.01	18.96	22.94	21.87	21.01	18.96
		1882.5	22.99	21.97	21.10	19.08	22.99	21.97	21.10	19.08
		1852.5	23.06	22.12	21.13	19.15	23.06	22.12	21.13	19.15
	100% RB	1912.5	22.85	21.86	20.95	18.95	22.85	21.86	20.95	18.95
		1882.5	22.96	22.01	21.07	19.05	22.96	22.01	21.07	19.05
		1852.5	23.05	22.08	21.16	19.16	23.05	22.08	21.16	19.16
10MHz	1 RB high	1910.0	23.94	23.12	22.23	19.14	23.94	23.12	22.23	19.14
		1882.5	23.93	23.11	22.35	19.13	23.93	23.11	22.35	19.13
		1855.0	24.03	23.24	22.35	19.25	24.03	23.24	22.35	19.25

	1 RB low	1910.0	23.93	23.08	22.07	19.09	23.93	23.08	22.07	19.09
		1882.5	23.95	23.08	22.11	19.22	23.95	23.08	22.11	19.22
		1855.0	24.02	23.22	22.44	19.15	24.02	23.22	22.44	19.15
	50% RB mid	1910.0	22.95	21.97	21.01	18.98	22.95	21.97	21.01	18.98
		1882.5	22.97	22.04	21.10	19.11	22.97	22.04	21.10	19.11
		1855.0	23.03	22.16	21.14	19.14	23.03	22.16	21.14	19.14
	100% RB	1910.0	22.89	21.88	20.95	18.96	22.89	21.88	20.95	18.96
		1882.5	23.00	22.00	21.07	19.08	23.00	22.00	21.07	19.08
		1855.0	23.05	22.08	21.16	19.13	23.05	22.08	21.16	19.13
15MHz	1 RB high	1907.5	23.70	22.87	21.99	18.89	23.70	22.87	21.99	18.89
		1882.5	23.71	22.86	22.04	18.95	23.71	22.86	22.04	18.95
		1857.5	23.88	23.10	22.18	19.06	23.88	23.10	22.18	19.06
	1 RB low	1907.5	23.79	22.88	22.21	18.78	23.79	22.88	22.21	18.78
		1882.5	23.78	22.85	22.00	18.95	23.78	22.85	22.00	18.95
		1857.5	23.83	23.00	22.35	19.03	23.83	23.00	22.35	19.03
	50% RB mid	1907.5	22.83	21.88	20.91	18.91	22.83	21.88	20.91	18.91
		1882.5	22.86	21.88	20.94	18.93	22.86	21.88	20.94	18.93
		1857.5	22.91	21.96	20.99	18.97	22.91	21.96	20.99	18.97
	100% RB	1907.5	22.83	21.84	20.97	18.93	22.83	21.84	20.97	18.93
		1882.5	22.85	21.86	20.91	18.93	22.85	21.86	20.91	18.93
		1857.5	22.89	21.94	20.97	19.01	22.89	21.94	20.97	19.01
20MHz	1 RB high	1905.0	23.74	22.98	22.04	19.15	23.74	22.98	22.04	19.15
		1882.5	23.76	22.98	22.01	19.09	23.76	22.98	22.01	19.09
		1860.0	23.81	23.05	22.16	19.16	23.81	23.05	22.16	19.16
	1 RB low	1905.0	23.77	22.95	22.16	18.98	23.77	22.95	22.16	18.98
		1882.5	23.74	22.97	22.08	19.07	23.74	22.97	22.08	19.07
		1860.0	23.81	23.10	21.94	19.13	23.81	23.10	21.94	19.13
	50% RB mid	1905.0	22.82	21.89	20.90	18.95	22.82	21.89	20.90	18.95
		1882.5	22.83	21.90	20.93	18.96	22.83	21.90	20.93	18.96
		1860.0	22.91	21.96	20.96	19.01	22.91	21.96	20.96	19.01
	100% RB	1905.0	22.87	21.89	20.92	18.94	22.87	21.89	20.92	18.94
		1882.5	22.86	21.87	20.94	18.94	22.86	21.87	20.94	18.94
		1860.0	22.93	21.94	20.98	18.96	22.93	21.94	20.98	18.96

LTE Band 26(814MHz~824MHz)-ERP

Limits: $\leq 50\text{dBm}(100\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-5.5)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	24.02	23.11	22.09	19.12	16.37	15.46	14.44	14.44
		819.0	24.00	23.10	22.29	19.07	16.35	15.45	14.64	14.64
		814.7	23.99	23.11	22.07	19.15	16.34	15.46	14.42	14.42
	1 RB low	823.3	23.96	23.05	22.34	19.04	16.31	15.40	14.69	14.69
		819.0	23.99	23.14	22.24	19.07	16.34	15.49	14.59	14.59
		814.7	23.97	23.10	22.10	18.91	16.32	15.45	14.45	14.45
	50% RB mid	823.3	24.03	23.19	22.13	19.01	16.38	15.54	14.48	14.48
		819.0	24.02	23.15	22.07	19.08	16.37	15.50	14.42	14.42
		814.7	23.98	23.16	22.07	18.98	16.33	15.51	14.42	14.42
	100% RB	823.3	23.00	22.06	21.02	18.96	15.35	14.41	13.37	13.37
		819.0	22.98	22.02	21.01	18.94	15.33	14.37	13.36	13.36
		814.7	22.96	22.06	21.02	18.94	15.31	14.41	13.37	13.37
3MHz	1 RB high	822.5	23.88	23.07	22.16	19.15	16.23	15.42	14.51	14.51
		819.0	23.95	23.12	22.10	19.00	16.30	15.47	14.45	14.45
		815.5	23.97	23.13	22.21	19.06	16.32	15.48	14.56	14.56
	1 RB low	822.5	23.87	23.05	22.08	19.03	16.22	15.40	14.43	14.43
		819.0	23.95	23.07	22.23	18.89	16.30	15.42	14.58	14.58
		815.5	23.95	23.10	22.30	18.96	16.30	15.45	14.65	14.65
	50% RB mid	822.5	23.03	22.10	21.04	19.10	15.38	14.45	13.39	13.39
		819.0	22.99	22.04	20.98	19.05	15.34	14.39	13.33	13.33
		815.5	22.97	22.08	21.03	19.04	15.32	14.43	13.38	13.38
	100% RB	822.5	23.00	22.06	21.03	19.04	15.35	14.41	13.38	13.38
		819.0	22.99	22.02	21.02	18.99	15.34	14.37	13.37	13.37
		815.5	22.97	22.02	20.99	18.99	15.32	14.37	13.34	13.34
5MHz	1 RB high	821.5	24.08	23.23	22.12	19.17	16.43	15.58	14.47	14.47
		819.0	24.04	23.22	22.08	19.19	16.39	15.57	14.43	14.43
		816.5	24.00	23.19	22.13	19.06	16.35	15.54	14.48	14.48
	1 RB low	821.5	24.07	23.29	22.17	18.98	16.42	15.64	14.52	14.52
		819.0	24.03	23.14	22.31	19.09	16.38	15.49	14.66	14.66
		816.5	23.97	23.13	22.24	19.00	16.32	15.48	14.59	14.59
	50% RB mid	821.5	23.04	22.14	21.10	19.07	15.39	14.49	13.45	13.45
		819.0	23.02	22.14	21.04	19.09	15.37	14.49	13.39	13.39
		816.5	22.99	22.00	21.04	19.02	15.34	14.35	13.39	13.39
	100% RB	821.5	23.03	22.01	21.06	19.00	15.38	14.36	13.41	13.41
		819.0	23.02	22.05	21.08	19.02	15.37	14.40	13.43	13.43
		816.5	22.99	22.03	21.04	19.04	15.34	14.38	13.39	13.39
10MHz	1 RB high	819.0	24.05	23.32	22.40	19.28	16.40	15.67	14.75	14.75
	1 RB low	819.0	24.04	23.26	22.21	19.20	16.39	15.61	14.56	14.56
	50% RB	819.0	24.00	23.17	22.28	19.32	16.35	15.52	14.63	14.63



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	mid									
	100% RB	819.0	24.03	23.23	22.30	19.00	16.38	15.58	14.65	14.65

LTE Band 26(824MHz-849MHz) -ERP
Limits: $\leq 38.45\text{dBm}(7\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-5.5)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	24.01	23.19	22.05	19.21	16.36	15.54	14.40	14.40
		836.5	24.08	23.21	22.30	19.13	16.43	15.56	14.65	14.65
		824.7	24.05	23.14	22.20	19.17	16.40	15.49	14.55	14.55
	1 RB low	848.3	24.01	23.13	22.15	18.95	16.36	15.48	14.50	14.50
		836.5	23.96	23.12	22.03	19.07	16.31	15.47	14.38	14.38
		824.7	23.91	23.05	21.95	18.99	16.26	15.40	14.30	14.30
	50% RB mid	848.3	24.00	23.14	22.10	19.12	16.35	15.49	14.45	14.45
		836.5	24.08	23.10	22.14	19.03	16.43	15.45	14.49	14.49
		824.7	24.05	23.26	22.19	19.10	16.40	15.61	14.54	14.54
	100% RB	848.3	22.97	22.00	21.04	18.92	15.32	14.35	13.39	13.39
		836.5	22.93	21.97	21.00	18.96	15.28	14.32	13.35	13.35
		824.7	23.00	22.11	21.07	19.00	15.35	14.46	13.42	13.42
3MHz	1 RB high	847.5	23.92	23.09	22.39	19.20	16.27	15.44	14.74	14.74
		836.5	23.98	23.17	22.17	19.06	16.33	15.52	14.52	14.52
		825.5	23.98	23.12	22.19	19.16	16.33	15.47	14.54	14.54
	1 RB low	847.5	23.92	23.12	22.18	18.94	16.27	15.47	14.53	14.53
		836.5	24.00	23.19	22.14	19.08	16.35	15.54	14.49	14.49
		825.5	24.01	23.19	22.28	18.97	16.36	15.54	14.63	14.63
	50% RB mid	847.5	22.97	22.10	21.05	19.02	15.32	14.45	13.40	13.40
		836.5	23.03	22.10	21.05	18.98	15.38	14.45	13.40	13.40
		825.5	23.04	22.09	21.08	19.08	15.39	14.44	13.43	13.43
	100% RB	847.5	22.98	22.01	21.00	19.00	15.33	14.36	13.35	13.35
		836.5	22.94	21.99	20.96	18.95	15.29	14.34	13.31	13.31
		825.5	23.00	22.07	21.03	19.01	15.35	14.42	13.38	13.38
5MHz	1 RB high	846.5	24.04	23.11	22.09	19.14	16.39	15.46	14.44	14.44
		836.5	24.10	23.27	22.08	19.14	16.45	15.62	14.43	14.43
		826.5	24.11	23.30	22.16	19.13	16.46	15.65	14.51	14.51
	1 RB low	846.5	24.05	23.14	22.05	19.00	16.40	15.49	14.40	14.40
		836.5	24.10	23.19	22.35	18.97	16.45	15.54	14.70	14.70
		826.5	24.10	23.28	22.44	19.13	16.45	15.63	14.79	14.79
	50% RB mid	846.5	23.03	22.10	21.02	19.09	15.38	14.45	13.37	13.37
		836.5	23.07	22.10	21.10	19.03	15.42	14.45	13.45	13.45
		826.5	23.06	22.14	21.11	19.07	15.41	14.49	13.46	13.46
	100% RB	846.5	22.99	22.08	21.03	19.06	15.34	14.43	13.38	13.38
		836.5	23.01	22.01	21.00	18.97	15.36	14.36	13.35	13.35
		826.5	23.05	22.08	21.07	19.04	15.40	14.43	13.42	13.42
10MHz	1 RB high	844.0	24.02	23.17	22.23	19.20	16.37	15.52	14.58	14.58
		836.5	24.10	23.17	22.22	19.23	16.45	15.52	14.57	14.57
		829.0	24.04	23.13	22.25	19.16	16.39	15.48	14.60	14.60

	1 RB low	844.0	24.08	23.25	22.40	19.13	16.43	15.60	14.75	14.75
		836.5	24.09	23.22	22.29	19.13	16.44	15.57	14.64	14.64
		829.0	24.00	23.11	22.19	19.09	16.35	15.46	14.54	14.54
	50% RB mid	844.0	23.05	22.13	21.10	19.10	15.40	14.48	13.45	13.45
		836.5	23.13	22.11	21.14	19.06	15.48	14.46	13.49	13.49
		829.0	23.10	22.14	21.10	19.15	15.45	14.49	13.45	13.45
	100% RB	844.0	23.09	22.09	21.07	19.06	15.44	14.44	13.42	13.42
		836.5	23.04	22.03	21.04	19.03	15.39	14.38	13.39	13.39
		829.0	23.12	22.11	21.14	19.14	15.47	14.46	13.49	13.49
15MHz	1 RB high	841.5	23.81	23.00	22.06	19.15	16.16	15.35	14.41	14.41
		836.5	23.81	22.92	22.01	19.22	16.16	15.27	14.36	14.36
		831.5	23.77	23.07	21.93	19.12	16.12	15.42	14.28	14.28
	1 RB low	841.5	23.88	23.09	22.12	19.01	16.23	15.44	14.47	14.47
		836.5	23.79	23.07	22.15	19.09	16.14	15.42	14.50	14.50
		831.5	23.81	23.02	21.79	18.88	16.16	15.37	14.14	14.14
	50% RB mid	841.5	22.98	21.89	20.94	18.88	15.33	14.24	13.29	13.29
		836.5	22.95	21.95	20.96	18.89	15.30	14.30	13.31	13.31
		831.5	22.96	21.90	20.97	18.90	15.31	14.25	13.32	13.32
	100% RB	841.5	22.84	21.91	20.86	18.86	15.19	14.26	13.21	13.21
		836.5	22.85	21.94	20.92	18.90	15.20	14.29	13.27	13.27
		831.5	22.90	21.88	20.93	18.91	15.25	14.23	13.28	13.28

LTE Band30

Limits: ≤ 24dBm/5MHz

Band	BW(MHz)	RB Allocation	Freq (MHz)	Modulation	Conducted Power (dBm/5MHz)	Antenna Gain	EIRP (dBm/5MHz)	LIMIT (dBm/5MHz)	Margin
30	BW_5M	1 RB low	2307.5	QPSK	23.61	-1	22.61	24	1.39
30	BW_5M	50% RB	2307.5	QPSK	22.32	-1	21.32	24	2.68
30	BW_5M	1 RB high	2307.5	QPSK	23.61	-1	22.61	24	1.39
30	BW_5M	100% RB	2307.5	QPSK	21.59	-1	20.59	24	3.41
30	BW_5M	1 RB low	2307.5	Q16	22.69	-1	21.69	24	2.31
30	BW_5M	50% RB	2307.5	Q16	21.35	-1	20.35	24	3.65
30	BW_5M	1 RB high	2307.5	Q16	22.76	-1	21.76	24	2.24
30	BW_5M	100% RB	2307.5	Q16	20.55	-1	19.55	24	4.45
30	BW_5M	1 RB low	2307.5	Q64	21.61	-1	20.61	24	3.39
30	BW_5M	50% RB	2307.5	Q64	20.38	-1	19.38	24	4.62
30	BW_5M	1 RB high	2307.5	Q64	21.88	-1	20.88	24	3.12
30	BW_5M	100% RB	2307.5	Q64	19.55	-1	18.55	24	5.45
30	BW_5M	1 RB low	2307.5	Q256	18.52	-1	17.52	24	6.48
30	BW_5M	50% RB	2307.5	Q256	18.29	-1	17.29	24	6.71
30	BW_5M	1 RB high	2307.5	Q256	18.77	-1	17.77	24	6.23
30	BW_5M	100% RB	2307.5	Q256	17.61	-1	16.61	24	7.39
30	BW_5M	1 RB low	2310	QPSK	23.76	-1	22.76	24	1.24
30	BW_5M	50% RB	2310	QPSK	20.30	-1	19.30	24	4.70
30	BW_5M	1 RB high	2310	QPSK	20.33	-1	19.33	24	4.68
30	BW_5M	100% RB	2310	QPSK	20.31	-1	19.31	24	4.69
30	BW_5M	1 RB low	2310	Q16	20.31	-1	19.31	24	4.69
30	BW_5M	50% RB	2310	Q16	20.32	-1	19.32	24	4.68
30	BW_5M	1 RB high	2310	Q16	20.32	-1	19.32	24	4.68
30	BW_5M	100% RB	2310	Q16	20.35	-1	19.35	24	4.65
30	BW_5M	1 RB low	2310	Q64	20.31	-1	19.31	24	4.69
30	BW_5M	50% RB	2310	Q64	20.35	-1	19.35	24	4.65
30	BW_5M	1 RB high	2310	Q64	20.36	-1	19.36	24	4.64
30	BW_5M	100% RB	2310	Q64	20.33	-1	19.33	24	4.68
30	BW_5M	1 RB low	2310	Q256	18.58	-1	17.58	24	6.42
30	BW_5M	50% RB	2310	Q256	18.33	-1	17.33	24	6.67
30	BW_5M	1 RB high	2310	Q256	18.64	-1	17.64	24	6.36
30	BW_5M	100% RB	2310	Q256	17.55	-1	16.55	24	7.45
30	BW_5M	1 RB low	2312.5	QPSK	23.64	-1	22.64	24	1.36
30	BW_5M	50% RB	2312.5	QPSK	20.41	-1	19.41	24	4.59
30	BW_5M	1 RB high	2312.5	QPSK	20.40	-1	19.40	24	4.61
30	BW_5M	100% RB	2312.5	QPSK	20.38	-1	19.38	24	4.62
30	BW_5M	1 RB low	2312.5	Q16	20.41	-1	19.41	24	4.59

30	BW_5M	50% RB	2312.5	Q16	20.39	-1	19.39	24	4.61
30	BW_5M	1 RB high	2312.5	Q16	20.40	-1	19.40	24	4.60
30	BW_5M	100% RB	2312.5	Q16	20.38	-1	19.38	24	4.63
30	BW_5M	1 RB low	2312.5	Q64	20.38	-1	19.38	24	4.62
30	BW_5M	50% RB	2312.5	Q64	20.39	-1	19.39	24	4.61
30	BW_5M	1 RB high	2312.5	Q64	20.37	-1	19.37	24	4.63
30	BW_5M	100% RB	2312.5	Q64	19.64	-1	18.64	24	5.36
30	BW_5M	1 RB low	2312.5	Q256	18.54	-1	17.54	24	6.46
30	BW_5M	50% RB	2312.5	Q256	18.28	-1	17.28	24	6.72
30	BW_5M	1 RB high	2312.5	Q256	18.56	-1	17.56	24	6.44
30	BW_5M	100% RB	2312.5	Q256	17.56	-1	16.56	24	7.44
30	BW_10M	1 RB low	2310	QPSK	23.60	-1	22.60	24	1.40
30	BW_10M	50% RB	2310	QPSK	21.57	-1	20.57	24	3.43
30	BW_10M	1 RB high	2310	QPSK	23.51	-1	22.51	24	1.49
30	BW_10M	100% RB	2310	QPSK	19.69	-1	18.69	24	5.31
30	BW_10M	1 RB low	2310	Q16	22.99	-1	21.99	24	2.01
30	BW_10M	50% RB	2310	Q16	20.60	-1	19.60	24	4.41
30	BW_10M	1 RB high	2310	Q16	22.80	-1	21.80	24	2.20
30	BW_10M	100% RB	2310	Q16	18.69	-1	17.69	24	6.31
30	BW_10M	1 RB low	2310	Q64	21.75	-1	20.75	24	3.25
30	BW_10M	50% RB	2310	Q64	19.60	-1	18.60	24	5.40
30	BW_10M	1 RB high	2310	Q64	21.75	-1	20.75	24	3.25
30	BW_10M	100% RB	2310	Q64	17.69	-1	16.69	24	7.31
30	BW_10M	1 RB low	2310	Q256	18.60	-1	17.60	24	6.40
30	BW_10M	50% RB	2310	Q256	17.62	-1	16.62	24	7.38
30	BW_10M	1 RB high	2310	Q256	18.65	-1	17.65	24	6.35
30	BW_10M	100% RB	2310	Q256	15.70	-1	14.70	24	9.30

LTE Band 41-EIRP

Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =0.7)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.50	24.64	23.73	20.64	26.20	25.34	24.43	21.34
		2593.0	25.54	24.73	23.81	20.69	26.24	25.43	24.51	21.39
		2498.5	25.55	24.71	23.79	20.84	26.25	25.41	24.49	21.54
	1 RB low	2687.5	25.49	24.59	23.51	20.61	26.19	25.29	24.21	21.31
		2593.0	25.48	24.73	23.66	20.63	26.18	25.43	24.36	21.33
		2498.5	25.50	24.67	23.87	20.82	26.20	25.37	24.57	21.52
	50% RB mid	2687.5	24.48	23.52	22.56	20.57	25.18	24.22	23.26	21.27
		2593.0	24.57	23.64	22.61	20.61	25.27	24.34	23.31	21.31
		2498.5	24.60	23.68	22.65	20.68	25.30	24.38	23.35	21.38
	100% RB	2687.5	24.47	23.53	22.54	20.56	25.17	24.23	23.24	21.26
		2593.0	24.55	23.60	22.59	20.61	25.25	24.30	23.29	21.31
		2498.5	24.56	23.59	22.66	20.61	25.26	24.29	23.36	21.31
10MHz	1 RB high	2685.0	25.50	24.62	23.67	20.68	26.20	25.32	24.37	21.38
		2593.0	25.54	24.73	23.68	20.65	26.24	25.43	24.38	21.35
		2501.0	25.55	24.62	23.90	20.78	26.25	25.32	24.60	21.48
	1 RB low	2685.0	25.43	24.67	23.72	20.61	26.13	25.37	24.42	21.31
		2593.0	25.49	24.60	23.71	20.60	26.19	25.30	24.41	21.30
		2501.0	25.51	24.70	24.05	20.57	26.21	25.40	24.75	21.27
	50% RB mid	2685.0	24.54	23.56	22.55	20.55	25.24	24.26	23.25	21.25
		2593.0	24.59	23.67	22.63	20.63	25.29	24.37	23.33	21.33
		2501.0	24.62	23.67	22.68	20.70	25.32	24.37	23.38	21.40
	100% RB	2685.0	23.70	22.74	22.58	20.52	24.40	23.44	23.28	21.22
		2593.0	23.76	22.77	22.62	20.60	24.46	23.47	23.32	21.30
		2501.0	23.81	22.79	22.65	20.67	24.51	23.49	23.35	21.37
15MHz	1 RB high	2682.5	25.35	24.46	23.63	20.52	26.05	25.16	24.33	21.22
		2593.0	25.42	24.57	23.56	20.65	26.12	25.27	24.26	21.35
		2503.5	25.30	24.54	23.72	20.69	26.00	25.24	24.42	21.39
	1 RB low	2682.5	25.27	24.35	23.70	20.36	25.97	25.05	24.40	21.06
		2593.0	25.32	24.60	23.60	20.55	26.02	25.30	24.30	21.25
		2503.5	25.28	24.51	23.50	20.58	25.98	25.21	24.20	21.28
	50% RB mid	2682.5	24.41	23.45	22.42	20.40	25.11	24.15	23.12	21.10
		2593.0	24.44	23.48	22.53	20.48	25.14	24.18	23.23	21.18
		2503.5	24.41	23.48	22.52	20.48	25.11	24.18	23.22	21.18
	100% RB	2682.5	23.54	22.58	22.40	20.42	24.24	23.28	23.10	21.12
		2593.0	23.61	22.63	22.49	20.48	24.31	23.33	23.19	21.18
		2503.5	23.64	22.64	22.51	20.50	24.34	23.34	23.21	21.20
20MHz	1 RB high	2680.0	25.41	24.54	23.60	20.74	26.11	25.24	24.30	21.44
		2593.0	25.46	24.69	23.72	20.75	26.16	25.39	24.42	21.45
		2506.0	25.43	24.70	23.66	20.71	26.13	25.40	24.36	21.41

	1 RB low	2680.0	25.33	24.46	23.74	20.55	26.03	25.16	24.44	21.25
		2593.0	25.38	24.61	23.23	20.58	26.08	25.31	23.93	21.28
		2506.0	25.35	24.65	23.42	20.64	26.05	25.35	24.12	21.34
	50% RB mid	2680.0	24.41	23.37	22.39	20.36	25.11	24.07	23.09	21.06
		2593.0	24.47	23.48	22.50	20.51	25.17	24.18	23.20	21.21
		2506.0	24.45	23.48	22.48	20.51	25.15	24.18	23.18	21.21
	100% RB	2680.0	23.51	22.51	22.33	20.33	24.21	23.21	23.03	21.03
		2593.0	23.62	22.64	22.48	20.46	24.32	23.34	23.18	21.16
		2506.0	23.64	22.68	22.50	20.51	24.34	23.38	23.20	21.21

LTE Band 48-EIRP

Limits: $\leq 23\text{dBm}/10\text{MHz}$

BW (MHz)	RB Allocation	Freq (MHz)	Modulation	Conducted Power (dBm/10MHz)	Antenna Gain	EIRP (dBm/10MHz)	Margin
BW_5M	1 RB low	3552.5	QPSK	25.49	-3	22.49	0.51
BW_5M	50% RB	3552.5	QPSK	24.51	-3	21.51	1.49
BW_5M	1 RB high	3552.5	QPSK	25.64	-3	22.64	0.36
BW_5M	100% RB	3552.5	QPSK	24.19	-3	21.19	1.81
BW_5M	1 RB low	3552.5	Q16	24.64	-3	21.64	1.36
BW_5M	50% RB	3552.5	Q16	23.46	-3	20.46	2.54
BW_5M	1 RB high	3552.5	Q16	24.69	-3	21.69	1.31
BW_5M	100% RB	3552.5	Q16	23.19	-3	20.19	2.81
BW_5M	1 RB low	3552.5	Q64	24.02	-3	21.02	1.98
BW_5M	50% RB	3552.5	Q64	22.48	-3	19.48	3.52
BW_5M	1 RB high	3552.5	Q64	24.05	-3	21.05	1.95
BW_5M	100% RB	3552.5	Q64	22.19	-3	19.19	3.81
BW_5M	1 RB low	3552.5	Q256	21.11	-3	18.11	4.89
BW_5M	50% RB	3552.5	Q256	20.56	-3	17.56	5.44
BW_5M	1 RB high	3552.5	Q256	20.77	-3	17.77	5.23
BW_5M	100% RB	3552.5	Q256	20.18	-3	17.18	5.82
BW_5M	1 RB low	3625	QPSK	25.70	-3	22.70	0.30
BW_5M	50% RB	3625	QPSK	22.03	-3	19.03	3.97
BW_5M	1 RB high	3625	QPSK	24.66	-3	21.66	1.34
BW_5M	100% RB	3625	QPSK	24.42	-3	21.42	1.58
BW_5M	1 RB low	3625	Q16	24.74	-3	21.74	1.26
BW_5M	50% RB	3625	Q16	22.75	-3	19.75	3.25
BW_5M	1 RB high	3625	Q16	23.65	-3	20.65	2.35
BW_5M	100% RB	3625	Q16	24.19	-3	21.19	1.81
BW_5M	1 RB low	3625	Q64	23.81	-3	20.81	2.19
BW_5M	50% RB	3625	Q64	22.65	-3	19.65	3.35
BW_5M	1 RB high	3625	Q64	23.66	-3	20.66	2.34
BW_5M	100% RB	3625	Q64	23.64	-3	20.64	2.36
BW_5M	1 RB low	3625	Q256	20.30	-3	17.30	5.70
BW_5M	50% RB	3625	Q256	20.03	-3	17.03	5.97
BW_5M	1 RB high	3625	Q256	20.09	-3	17.09	5.91
BW_5M	100% RB	3625	Q256	20.40	-3	17.40	5.60
BW_5M	1 RB low	3697.5	QPSK	25.07	-3	22.07	0.93
BW_5M	50% RB	3697.5	QPSK	22.16	-3	19.16	3.84
BW_5M	1 RB high	3697.5	QPSK	23.78	-3	20.78	2.22
BW_5M	100% RB	3697.5	QPSK	23.74	-3	20.74	2.26
BW_5M	1 RB low	3697.5	Q16	23.70	-3	20.70	2.30

BW_5M	50% RB	3697.5	Q16	22.18	-3	19.18	3.82
BW_5M	1 RB high	3697.5	Q16	23.76	-3	20.76	2.24
BW_5M	100% RB	3697.5	Q16	23.73	-3	20.73	2.27
BW_5M	1 RB low	3697.5	Q64	23.74	-3	20.74	2.26
BW_5M	50% RB	3697.5	Q64	22.11	-3	19.11	3.89
BW_5M	1 RB high	3697.5	Q64	23.73	-3	20.73	2.27
BW_5M	100% RB	3697.5	Q64	23.73	-3	20.73	2.27
BW_5M	1 RB low	3697.5	Q256	20.28	-3	17.28	5.72
BW_5M	50% RB	3697.5	Q256	20.21	-3	17.21	5.79
BW_5M	1 RB high	3697.5	Q256	20.48	-3	17.48	5.52
BW_5M	100% RB	3697.5	Q256	19.85	-3	16.85	6.15
BW_10M	1 RB low	3555	QPSK	25.56	-3	22.56	0.44
BW_10M	50% RB	3555	QPSK	24.18	-3	21.18	1.82
BW_10M	1 RB high	3555	QPSK	25.38	-3	22.38	0.62
BW_10M	100% RB	3555	QPSK	23.44	-3	20.44	2.56
BW_10M	1 RB low	3555	Q16	24.87	-3	21.87	1.13
BW_10M	50% RB	3555	Q16	23.14	-3	20.14	2.86
BW_10M	1 RB high	3555	Q16	24.74	-3	21.74	1.26
BW_10M	100% RB	3555	Q16	22.43	-3	19.43	3.57
BW_10M	1 RB low	3555	Q64	23.90	-3	20.90	2.10
BW_10M	50% RB	3555	Q64	22.22	-3	19.22	3.78
BW_10M	1 RB high	3555	Q64	23.93	-3	20.93	2.07
BW_10M	100% RB	3555	Q64	21.41	-3	18.41	4.59
BW_10M	1 RB low	3555	Q256	20.64	-3	17.64	5.36
BW_10M	50% RB	3555	Q256	20.17	-3	17.17	5.83
BW_10M	1 RB high	3555	Q256	20.69	-3	17.69	5.31
BW_10M	100% RB	3555	Q256	19.40	-3	16.40	6.60
BW_10M	1 RB low	3625	QPSK	24.90	-3	21.90	1.10
BW_10M	50% RB	3625	QPSK	21.74	-3	18.74	4.26
BW_10M	1 RB high	3625	QPSK	22.36	-3	19.36	3.64
BW_10M	100% RB	3625	QPSK	22.83	-3	19.83	3.17
BW_10M	1 RB low	3625	Q16	22.01	-3	19.01	3.99
BW_10M	50% RB	3625	Q16	22.89	-3	19.89	3.11
BW_10M	1 RB high	3625	Q16	21.83	-3	18.83	4.17
BW_10M	100% RB	3625	Q16	22.95	-3	19.95	3.05
BW_10M	1 RB low	3625	Q64	22.01	-3	19.01	3.99
BW_10M	50% RB	3625	Q64	22.06	-3	19.06	3.94
BW_10M	1 RB high	3625	Q64	22.03	-3	19.03	3.97
BW_10M	100% RB	3625	Q64	22.18	-3	19.18	3.82
BW_10M	1 RB low	3625	Q256	20.13	-3	17.13	5.87
BW_10M	50% RB	3625	Q256	19.73	-3	16.73	6.27
BW_10M	1 RB high	3625	Q256	20.14	-3	17.14	5.86
BW_10M	100% RB	3625	Q256	20.61	-3	17.61	5.39

BW_10M	1 RB low	3695	QPSK	25.12	-3	22.12	0.88
BW_10M	50% RB	3695	QPSK	21.87	-3	18.87	4.13
BW_10M	1 RB high	3695	QPSK	21.83	-3	18.83	4.17
BW_10M	100% RB	3695	QPSK	21.85	-3	18.85	4.15
BW_10M	1 RB low	3695	Q16	21.87	-3	18.87	4.13
BW_10M	50% RB	3695	Q16	21.91	-3	18.91	4.09
BW_10M	1 RB high	3695	Q16	21.85	-3	18.85	4.15
BW_10M	100% RB	3695	Q16	21.83	-3	18.83	4.17
BW_10M	1 RB low	3695	Q64	21.86	-3	18.86	4.14
BW_10M	50% RB	3695	Q64	21.85	-3	18.85	4.15
BW_10M	1 RB high	3695	Q64	21.84	-3	18.84	4.16
BW_10M	100% RB	3695	Q64	21.85	-3	18.85	4.15
BW_10M	1 RB low	3695	Q256	21.01	-3	18.01	4.99
BW_10M	50% RB	3695	Q256	19.85	-3	16.85	6.15
BW_10M	1 RB high	3695	Q256	20.38	-3	17.38	5.62
BW_10M	100% RB	3695	Q256	19.09	-3	16.09	6.91
BW_15M	1 RB low	3557.5	QPSK	25.98	-3	22.98	0.02
BW_15M	50% RB	3557.5	QPSK	23.79	-3	20.79	2.21
BW_15M	1 RB high	3557.5	QPSK	25.41	-3	22.41	0.59
BW_15M	100% RB	3557.5	QPSK	22.12	-3	19.12	3.88
BW_15M	1 RB low	3557.5	Q16	24.48	-3	21.48	1.52
BW_15M	50% RB	3557.5	Q16	22.70	-3	19.70	3.30
BW_15M	1 RB high	3557.5	Q16	25.09	-3	22.09	0.91
BW_15M	100% RB	3557.5	Q16	20.96	-3	17.96	5.04
BW_15M	1 RB low	3557.5	Q64	23.59	-3	20.59	2.41
BW_15M	50% RB	3557.5	Q64	21.63	-3	18.63	4.37
BW_15M	1 RB high	3557.5	Q64	23.78	-3	20.78	2.22
BW_15M	100% RB	3557.5	Q64	19.95	-3	16.95	6.05
BW_15M	1 RB low	3557.5	Q256	20.54	-3	17.54	5.46
BW_15M	50% RB	3557.5	Q256	19.66	-3	16.66	6.34
BW_15M	1 RB high	3557.5	Q256	20.67	-3	17.67	5.33
BW_15M	100% RB	3557.5	Q256	17.93	-3	14.93	8.07
BW_15M	1 RB low	3625	QPSK	25.26	-3	22.26	0.74
BW_15M	50% RB	3625	QPSK	21.24	-3	18.24	4.76
BW_15M	1 RB high	3625	QPSK	21.26	-3	18.26	4.74
BW_15M	100% RB	3625	QPSK	21.24	-3	18.24	4.76
BW_15M	1 RB low	3625	Q16	21.28	-3	18.28	4.72
BW_15M	50% RB	3625	Q16	21.28	-3	18.28	4.72
BW_15M	1 RB high	3625	Q16	21.21	-3	18.21	4.79
BW_15M	100% RB	3625	Q16	21.24	-3	18.24	4.76
BW_15M	1 RB low	3625	Q64	21.24	-3	18.24	4.76
BW_15M	50% RB	3625	Q64	21.25	-3	18.25	4.75
BW_15M	1 RB high	3625	Q64	21.19	-3	18.19	4.81

BW_15M	100% RB	3625	Q64	21.21	-3	18.21	4.79
BW_15M	1 RB low	3625	Q256	19.93	-3	16.93	6.07
BW_15M	50% RB	3625	Q256	19.17	-3	16.17	6.83
BW_15M	1 RB high	3625	Q256	20.03	-3	17.03	5.97
BW_15M	100% RB	3625	Q256	17.46	-3	14.46	8.54
BW_15M	1 RB low	3692.5	QPSK	25.04	-3	22.04	0.96
BW_15M	50% RB	3692.5	QPSK	21.32	-3	18.32	4.68
BW_15M	1 RB high	3692.5	QPSK	21.39	-3	18.39	4.61
BW_15M	100% RB	3692.5	QPSK	21.35	-3	18.35	4.65
BW_15M	1 RB low	3692.5	Q16	21.36	-3	18.36	4.64
BW_15M	50% RB	3692.5	Q16	21.35	-3	18.35	4.65
BW_15M	1 RB high	3692.5	Q16	21.36	-3	18.36	4.64
BW_15M	100% RB	3692.5	Q16	21.39	-3	18.39	4.61
BW_15M	1 RB low	3692.5	Q64	21.39	-3	18.39	4.61
BW_15M	50% RB	3692.5	Q64	21.35	-3	18.35	4.65
BW_15M	1 RB high	3692.5	Q64	21.35	-3	18.35	4.65
BW_15M	100% RB	3692.5	Q64	21.37	-3	18.37	4.63
BW_15M	1 RB low	3692.5	Q256	20.15	-3	17.15	5.85
BW_15M	50% RB	3692.5	Q256	19.28	-3	16.28	6.72
BW_15M	1 RB high	3692.5	Q256	20.35	-3	17.35	5.65
BW_15M	100% RB	3692.5	Q256	17.56	-3	14.56	8.44
BW_20M	1 RB low	3560	QPSK	25.67	-3	22.67	0.33
BW_20M	50% RB	3560	QPSK	23.36	-3	20.36	2.64
BW_20M	1 RB high	3560	QPSK	25.70	-3	22.70	0.30
BW_20M	100% RB	3560	QPSK	20.99	-3	17.99	5.01
BW_20M	1 RB low	3560	Q16	24.91	-3	21.91	1.09
BW_20M	50% RB	3560	Q16	22.30	-3	19.30	3.70
BW_20M	1 RB high	3560	Q16	24.60	-3	21.60	1.40
BW_20M	100% RB	3560	Q16	19.94	-3	16.94	6.06
BW_20M	1 RB low	3560	Q64	23.75	-3	20.75	2.25
BW_20M	50% RB	3560	Q64	21.26	-3	18.26	4.74
BW_20M	1 RB high	3560	Q64	23.53	-3	20.53	2.47
BW_20M	100% RB	3560	Q64	18.86	-3	15.86	7.14
BW_20M	1 RB low	3560	Q256	20.58	-3	17.58	5.42
BW_20M	50% RB	3560	Q256	19.21	-3	16.21	6.79
BW_20M	1 RB high	3560	Q256	20.42	-3	17.42	5.58
BW_20M	100% RB	3560	Q256	16.85	-3	13.85	9.15
BW_20M	1 RB low	3625	QPSK	25.08	-3	22.08	0.92
BW_20M	50% RB	3625	QPSK	20.94	-3	17.94	5.06
BW_20M	1 RB high	3625	QPSK	20.81	-3	17.81	5.19
BW_20M	100% RB	3625	QPSK	20.83	-3	17.83	5.17
BW_20M	1 RB low	3625	Q16	20.83	-3	17.83	5.17
BW_20M	50% RB	3625	Q16	20.85	-3	17.85	5.15

BW_20M	1 RB high	3625	Q16	20.85	-3	17.85	5.15
BW_20M	100% RB	3625	Q16	20.78	-3	17.78	5.22
BW_20M	1 RB low	3625	Q64	20.80	-3	17.80	5.20
BW_20M	50% RB	3625	Q64	20.88	-3	17.88	5.12
BW_20M	1 RB high	3625	Q64	20.90	-3	17.90	5.10
BW_20M	100% RB	3625	Q64	20.82	-3	17.82	5.18
BW_20M	1 RB low	3625	Q256	20.16	-3	17.16	5.84
BW_20M	50% RB	3625	Q256	18.84	-3	15.84	7.16
BW_20M	1 RB high	3625	Q256	20.05	-3	17.05	5.95
BW_20M	100% RB	3625	Q256	16.38	-3	13.38	9.62
BW_20M	1 RB low	3690	QPSK	25.23	-3	22.23	0.77
BW_20M	50% RB	3690	QPSK	20.97	-3	17.97	5.03
BW_20M	1 RB high	3690	QPSK	21.06	-3	18.06	4.94
BW_20M	100% RB	3690	QPSK	20.97	-3	17.97	5.03
BW_20M	1 RB low	3690	Q16	20.95	-3	17.95	5.05
BW_20M	50% RB	3690	Q16	20.92	-3	17.92	5.08
BW_20M	1 RB high	3690	Q16	20.98	-3	17.98	5.02
BW_20M	100% RB	3690	Q16	20.95	-3	17.95	5.05
BW_20M	1 RB low	3690	Q64	20.97	-3	17.97	5.03
BW_20M	50% RB	3690	Q64	20.90	-3	17.90	5.10
BW_20M	1 RB high	3690	Q64	20.88	-3	17.88	5.12
BW_20M	100% RB	3690	Q64	20.93	-3	17.93	5.07
BW_20M	1 RB low	3690	Q256	20.06	-3	17.06	5.94
BW_20M	50% RB	3690	Q256	18.89	-3	15.89	7.11
BW_20M	1 RB high	3690	Q256	20.21	-3	17.21	5.79
BW_20M	100% RB	3690	Q256	16.49	-3	13.49	9.51

LTE Band 66-EIRP

Limits: $\leq 30\text{dBm}(1\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-0.12)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.91	23.06	22.13	19.05	23.79	22.94	22.01	18.93
		1745.0	23.87	22.93	21.96	18.95	23.75	22.81	21.84	18.83
		1710.7	23.90	23.01	22.15	19.03	23.78	22.89	22.03	18.91
	1 RB low	1779.3	23.82	22.99	21.77	19.02	23.70	22.87	21.65	18.90
		1745.0	23.84	22.97	22.06	19.09	23.72	22.85	21.94	18.97
		1710.7	23.84	22.90	22.05	18.94	23.72	22.78	21.93	18.82
	50% RB mid	1779.3	23.84	22.95	22.08	18.94	23.72	22.83	21.96	18.82
		1745.0	23.82	23.00	21.88	18.97	23.70	22.88	21.76	18.85
		1710.7	23.85	23.01	21.99	18.96	23.73	22.89	21.87	18.84
	100% RB	1779.3	22.83	22.00	21.02	18.95	22.71	21.88	20.90	18.83
		1745.0	22.78	21.87	20.81	18.90	22.66	21.75	20.69	18.78
		1710.7	22.83	21.92	20.84	18.85	22.71	21.80	20.72	18.73
3MHz	1 RB high	1778.5	23.84	22.94	22.04	18.93	23.72	22.82	21.92	18.81
		1745.0	23.76	22.95	21.98	18.95	23.64	22.83	21.86	18.83
		1711.5	23.79	22.90	22.01	19.06	23.67	22.78	21.89	18.94
	1 RB low	1778.5	23.81	22.91	21.89	18.93	23.69	22.79	21.77	18.81
		1745.0	23.78	22.97	21.87	18.93	23.66	22.85	21.75	18.81
		1711.5	23.83	22.88	22.21	19.04	23.71	22.76	22.09	18.92
	50% RB mid	1778.5	22.83	21.94	20.99	19.02	22.71	21.82	20.87	18.90
		1745.0	22.81	21.91	20.89	18.96	22.69	21.79	20.77	18.84
		1711.5	22.85	21.99	20.93	19.01	22.73	21.87	20.81	18.89
	100% RB	1778.5	22.85	21.90	20.96	18.90	22.73	21.78	20.84	18.78
		1745.0	22.81	21.82	20.93	18.89	22.69	21.70	20.81	18.77
		1711.5	22.86	21.92	20.92	18.93	22.74	21.80	20.80	18.81
5MHz	1 RB high	1777.5	23.85	23.05	21.93	19.09	23.73	22.93	21.81	18.97
		1745.0	23.81	22.98	21.98	18.96	23.69	22.86	21.86	18.84
		1712.5	23.87	23.05	21.84	19.01	23.75	22.93	21.72	18.89
	1 RB low	1777.5	23.80	22.97	22.14	18.88	23.68	22.85	22.02	18.76
		1745.0	23.75	22.95	22.12	18.96	23.63	22.83	22.00	18.84
		1712.5	23.85	23.00	22.01	18.95	23.73	22.88	21.89	18.83
	50% RB mid	1777.5	22.87	21.78	20.87	18.87	22.75	21.66	20.75	18.75
		1745.0	22.86	21.89	20.90	18.91	22.74	21.77	20.78	18.79
		1712.5	22.86	21.97	20.97	18.95	22.74	21.85	20.85	18.83
	100% RB	1777.5	22.77	21.77	20.86	18.84	22.65	21.65	20.74	18.72
		1745.0	22.81	21.83	20.86	18.91	22.69	21.71	20.74	18.79
		1712.5	22.87	21.88	20.90	18.91	22.75	21.76	20.78	18.79
10MHz	1 RB high	1775.0	23.86	23.09	22.10	19.04	23.74	22.97	21.98	18.92
		1745.0	23.83	22.93	21.97	18.99	23.71	22.81	21.85	18.87
		1715.0	23.90	23.02	22.12	19.06	23.78	22.90	22.00	18.94

	1 RB low	1775.0	23.79	23.00	21.85	18.95	23.67	22.88	21.73	18.83
		1745.0	23.77	22.90	21.90	18.97	23.65	22.78	21.78	18.85
		1715.0	23.84	23.05	21.79	18.93	23.72	22.93	21.67	18.81
	50% RB mid	1775.0	22.88	21.93	20.94	18.96	22.76	21.81	20.82	18.84
		1745.0	22.85	21.92	20.86	18.94	22.73	21.80	20.74	18.82
		1715.0	22.90	21.90	20.89	18.95	22.78	21.78	20.77	18.83
	100% RB	1775.0	22.86	21.87	20.88	18.92	22.74	21.75	20.76	18.80
		1745.0	22.86	21.84	20.88	18.89	22.74	21.72	20.76	18.77
		1715.0	22.87	21.91	20.93	18.92	22.75	21.79	20.81	18.80
15MHz	1 RB high	1772.5	23.69	22.79	21.94	18.80	23.57	22.67	21.82	18.68
		1745.0	23.67	22.87	22.00	18.78	23.55	22.75	21.88	18.66
		1717.5	23.77	22.91	22.01	18.84	23.65	22.79	21.89	18.72
	1 RB low	1772.5	23.66	22.78	21.71	18.75	23.54	22.66	21.59	18.63
		1745.0	23.59	22.74	21.94	18.66	23.47	22.62	21.82	18.54
		1717.5	23.78	22.91	22.20	18.75	23.66	22.79	22.08	18.63
	50% RB mid	1772.5	22.75	21.76	20.75	18.78	22.63	21.64	20.63	18.66
		1745.0	22.74	21.74	20.75	18.76	22.62	21.62	20.63	18.64
		1717.5	22.77	21.79	20.76	18.77	22.65	21.67	20.64	18.65
	100% RB	1772.5	22.71	21.76	20.75	18.80	22.59	21.64	20.63	18.68
		1745.0	22.70	21.75	20.76	18.75	22.58	21.63	20.64	18.63
		1717.5	22.76	21.77	20.79	18.80	22.64	21.65	20.67	18.68
20MHz	1 RB high	1770.0	23.70	22.95	21.92	19.10	23.58	22.83	21.80	18.98
		1745.0	23.74	23.10	21.98	18.88	23.62	22.98	21.86	18.76
		1720.0	23.75	22.90	21.95	19.02	23.63	22.78	21.83	18.90
	1 RB low	1770.0	23.55	22.81	21.91	18.78	23.43	22.69	21.79	18.66
		1745.0	23.62	22.87	21.87	18.91	23.50	22.75	21.75	18.79
		1720.0	23.72	23.00	21.66	18.95	23.60	22.88	21.54	18.83
	50% RB mid	1770.0	22.75	21.70	20.75	18.70	22.63	21.58	20.63	18.58
		1745.0	22.75	21.77	20.75	18.77	22.63	21.65	20.63	18.65
		1720.0	22.78	21.78	20.77	18.81	22.66	21.66	20.65	18.69
	100% RB	1770.0	22.66	21.65	20.68	18.71	22.54	21.53	20.56	18.59
		1745.0	22.74	21.77	20.74	18.77	22.62	21.65	20.62	18.65
		1720.0	22.75	21.76	20.77	18.78	22.63	21.64	20.65	18.66

LTE Band 71-ERP
Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-3.1)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	24.02	23.67	22.03	19.06	18.77	18.42	16.78	16.78
		680.5	23.84	23.28	22.15	19.15	18.59	18.03	16.90	16.90
		665.5	23.95	23.24	21.16	19.00	18.70	17.99	15.91	15.91
	1 RB low	695.5	23.88	23.41	22.15	19.11	18.63	18.16	16.90	16.90
		680.5	24.02	23.66	22.09	19.23	18.77	18.41	16.84	16.84
		665.5	24.06	23.26	21.11	19.23	18.81	18.01	15.86	15.86
	50% RB mid	695.5	23.18	22.35	21.12	19.01	17.93	17.10	15.87	15.87
		680.5	22.94	22.18	21.04	19.07	17.69	16.93	15.79	15.79
		665.5	22.95	22.16	20.18	19.27	17.70	16.91	14.93	14.93
	100% RB	695.5	23.01	22.19	21.11	18.86	17.76	16.94	15.86	15.86
		680.5	22.90	22.09	21.05	19.05	17.65	16.84	15.80	15.80
		665.5	22.93	22.10	20.10	19.28	17.68	16.85	14.85	14.85
10MHz	1 RB high	693.0	24.15	23.64	22.40	18.81	18.90	18.39	17.15	17.15
		680.5	23.94	23.44	22.06	18.83	18.69	18.19	16.81	16.81
		668.0	23.55	23.07	21.83	19.24	18.30	17.82	16.58	16.58
	1 RB low	693.0	24.04	23.65	22.21	18.80	18.79	18.40	16.96	16.96
		680.5	23.88	23.37	21.95	18.95	18.63	18.12	16.70	16.70
		668.0	23.64	23.12	21.88	18.91	18.39	17.87	16.63	16.63
	50% RB mid	693.0	23.15	22.27	21.28	19.08	17.90	17.02	16.03	16.03
		680.5	22.97	22.13	21.07	19.14	17.72	16.88	15.82	15.82
		668.0	22.75	21.96	20.85	19.15	17.50	16.71	15.60	15.60
	100% RB	693.0	23.09	22.27	21.16	18.88	17.84	17.02	15.91	15.91
		680.5	22.93	22.02	21.04	19.18	17.68	16.77	15.79	15.79
		668.0	22.66	21.83	20.70	18.95	17.41	16.58	15.45	15.45
15MHz	1 RB high	690.5	23.93	23.74	22.20	19.27	18.68	18.49	16.95	16.95
		680.5	23.98	23.51	22.13	18.99	18.73	18.26	16.88	16.88
		670.5	23.76	23.10	21.99	18.83	18.51	17.85	16.74	16.74
	1 RB low	690.5	24.03	23.70	22.07	19.04	18.78	18.45	16.82	16.82
		680.5	23.92	23.50	22.12	19.27	18.67	18.25	16.87	16.87
		670.5	23.70	23.36	21.74	18.83	18.45	18.11	16.49	16.49
	50% RB mid	690.5	23.18	22.34	21.25	18.91	17.93	17.09	16.00	16.00
		680.5	23.01	22.12	20.98	19.27	17.76	16.87	15.73	15.73
		670.5	22.85	21.98	20.89	19.07	17.60	16.73	15.64	15.64
	100% RB	690.5	23.05	22.15	21.16	19.05	17.80	16.90	15.91	15.91
		680.5	23.01	22.11	21.01	18.88	17.76	16.86	15.76	15.76
		670.5	22.85	21.97	20.87	19.00	17.60	16.72	15.62	15.62
20MHz	1 RB high	688.0	23.89	23.09	22.08	19.14	18.64	17.84	16.83	16.83
		680.5	23.86	22.96	22.15	19.00	18.61	17.71	16.90	16.90
		673.0	23.93	23.20	22.07	18.99	18.68	17.95	16.82	16.82

	1 RB low	688.0	24.04	23.35	22.26	18.97	18.79	18.10	17.01	17.01
		680.5	24.01	23.49	22.23	18.88	18.76	18.24	16.98	16.98
		673.0	24.10	23.35	22.29	19.15	18.85	18.10	17.04	17.04
	50% RB mid	688.0	23.09	22.11	21.19	18.83	17.84	16.86	15.94	15.94
		680.5	23.15	22.21	21.14	19.09	17.90	16.96	15.89	15.89
		673.0	23.22	22.12	21.23	19.29	17.97	16.87	15.98	15.98
	100% RB	688.0	23.11	22.14	21.14	18.82	17.86	16.89	15.89	15.89
		680.5	23.10	22.14	21.07	19.01	17.85	16.89	15.82	15.82
		673.0	23.28	22.32	21.18	19.11	18.03	17.07	15.93	15.93

LTE CA band 5B
Limits: $\leq 38.45\text{dBm}(7\text{W})$

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	ERP(dBm)(Gt-Lc = -5.5)
				Size	Offset	Size	Offset		
3MHz/5MHz	834.1	838	QPSK	1	14	1	0	22.84	15.19
			QPSK	15	0	25	0	22.96	15.31
			16QAM	1	14	1	0	22.79	15.14
			16QAM	15	0	25	0	22.66	15.01
			64QAM	1	14	1	0	21.89	14.24
			64QAM	15	0	25	0	21.89	14.24
			256QAM	1	14	1	0	20.86	13.21
			256QAM	15	0	25	0	20.95	13.3
5MHz/3MHz	835	838.9	QPSK	1	24	1	0	22.92	15.27
			QPSK	25	0	15	0	22.96	15.31
			16QAM	1	24	1	0	22.81	15.16
			16QAM	25	0	15	0	22.65	15
			64QAM	1	24	1	0	21.78	14.13
			64QAM	25	0	15	0	21.8	14.15
			256QAM	1	24	1	0	20.75	13.1
			256QAM	25	0	15	0	20.84	13.19
5MHz/10MHz	831.8	839	QPSK	1	24	1	0	22.83	15.18
			QPSK	25	0	50	0	20.81	13.16
			16QAM	1	24	1	0	21.75	14.1
			16QAM	25	0	50	0	19.82	12.17
			64QAM	1	24	1	0	20.69	13.04
			64QAM	25	0	50	0	19.83	12.18
			256QAM	1	24	1	0	17.77	10.12
			256QAM	25	0	50	0	17.82	10.17
10MHz/5MHz	834	841.2	QPSK	1	49	1	0	22.68	15.03
			QPSK	50	0	25	0	20.84	13.19
			16QAM	1	49	1	0	21.6	13.95
			16QAM	50	0	25	0	19.83	12.18
			64QAM	1	49	1	0	20.8	13.15
			64QAM	50	0	25	0	19.83	12.18
			256QAM	1	49	1	0	17.71	10.06
			256QAM	50	0	25	0	17.83	10.18
10MHz/10MHz	831.6	841.5	QPSK	1	49	1	0	22.7	15.05
			QPSK	50	0	50	0	20.88	13.23
			16QAM	1	49	1	0	21.66	14.01
			16QAM	50	0	50	0	19.82	12.17
			64QAM	1	49	1	0	20.73	13.08



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			64QAM	50	0	50	0	19.89	12.24
			256QAM	1	49	1	0	17.69	10.04
			256QAM	50	0	50	0	17.88	10.23

LTE CA band 7C
Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm)(Gt-Lc ≈ -1.3)
				Size	Offset	Size	Offset		
10MHz/20MHz	2525.6	2540	QPSK	1	49	1	0	22.73	21.43
			QPSK	50	0	100	0	20.80	19.50
			16QAM	1	49	1	0	21.72	20.42
			16QAM	50	0	100	0	19.85	18.55
			64QAM	1	49	1	0	20.76	19.46
			64QAM	50	0	100	0	19.79	18.49
			256QAM	1	49	1	0	17.76	16.46
			256QAM	50	0	100	0	17.79	16.49
15MHz/10MHz	2530.1	2542.1	QPSK	1	74	1	0	22.76	21.46
			QPSK	75	0	50	0	20.81	19.51
			16QAM	1	74	1	0	21.75	20.45
			16QAM	75	0	50	0	19.84	18.54
			64QAM	1	74	1	0	20.86	19.56
			64QAM	75	0	50	0	19.83	18.53
			256QAM	1	74	1	0	17.70	16.40
			256QAM	75	0	50	0	17.83	16.53
15MHz/15MHz	2527.5	2542.5	QPSK	1	74	1	0	22.75	21.45
			QPSK	75	0	75	0	20.82	19.52
			16QAM	1	74	1	0	21.70	20.40
			16QAM	75	0	75	0	19.86	18.56
			64QAM	1	74	1	0	20.81	19.51
			64QAM	75	0	75	0	19.89	18.59
			256QAM	1	74	1	0	17.72	16.42
			256QAM	75	0	75	0	17.85	16.55
15MHz/20MHz	2525.3	2542.4	QPSK	1	74	1	0	22.78	21.48
			QPSK	75	0	100	0	20.80	19.50
			16QAM	1	74	1	0	21.69	20.39
			16QAM	75	0	100	0	19.83	18.53
			64QAM	1	74	1	0	20.76	19.46
			64QAM	75	0	100	0	19.85	18.55
			256QAM	1	74	1	0	17.78	16.48
			256QAM	75	0	100	0	17.83	16.53
20MHz/10MHz	2530.1	2544.5	QPSK	1	99	1	0	22.78	21.48
			QPSK	100	0	50	0	20.81	19.51
			16QAM	1	99	1	0	21.75	20.45
			16QAM	100	0	50	0	19.86	18.56
			64QAM	1	99	1	0	20.78	19.48

			64QAM	100	0	50	0	19.85	18.55
			256QAM	1	99	1	0	17.78	16.48
			256QAM	100	0	50	0	17.82	16.52
20MHz/15M Hz	2527.6	2544.7	QPSK	1	99	1	0	22.73	21.43
			QPSK	100	0	75	0	20.85	19.55
			16QAM	1	99	1	0	21.57	20.27
			16QAM	100	0	75	0	19.84	18.54
			64QAM	1	99	1	0	20.80	19.50
			64QAM	100	0	75	0	19.86	18.56
			256QAM	1	99	1	0	17.80	16.50
			256QAM	100	0	75	0	17.84	16.54
20MHz/20M Hz	2525.1	2544.9	QPSK	1	99	1	0	22.75	21.45
			QPSK	100	0	100	0	20.83	19.53
			16QAM	1	99	1	0	21.72	20.42
			16QAM	100	0	100	0	19.85	18.55
			64QAM	1	99	1	0	20.86	19.56
			64QAM	100	0	100	0	19.81	18.51
			256QAM	1	99	1	0	17.71	16.41
			256QAM	100	0	100	0	17.83	16.53

LTE CA band 41C
Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm)(Gt-Lc =0.7)
				Size	Offset	Size	Offset		
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	25.40	26.10
			QPSK	25	0	100	0	23.41	24.11
			16QAM	1	24	1	0	23.90	24.60
			16QAM	25	0	100	0	22.41	23.11
			64QAM	1	24	1	0	23.44	24.14
			64QAM	25	0	100	0	22.39	23.09
			256QAM	1	24	1	0	20.49	21.19
			256QAM	25	0	100	0	20.40	21.10
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	25.39	26.09
			QPSK	50	0	75	0	23.42	24.12
			16QAM	1	49	1	0	23.87	24.57
			16QAM	50	0	75	0	22.39	23.09
			64QAM	1	49	1	0	23.40	24.10
			64QAM	50	0	75	0	22.39	23.09
			256QAM	1	49	1	0	20.31	21.01
			256QAM	50	0	75	0	20.41	21.11
10MHz/20MHz	2583.6	2598	QPSK	1	49	1	0	25.39	26.09
			QPSK	50	0	100	0	23.45	24.15
			16QAM	1	49	1	0	23.88	24.58
			16QAM	50	0	100	0	22.43	23.13
			64QAM	1	49	1	0	23.36	24.06
			64QAM	50	0	100	0	22.42	23.12
			256QAM	1	49	1	0	20.45	21.15
			256QAM	50	0	100	0	20.45	21.15
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	25.41	26.11
			QPSK	75	0	50	0	23.45	24.15
			16QAM	1	74	1	0	23.80	24.50
			16QAM	75	0	50	0	22.47	23.17
			64QAM	1	74	1	0	23.44	24.14
			64QAM	75	0	50	0	22.46	23.16
			256QAM	1	74	1	0	20.34	21.04
			256QAM	75	0	50	0	20.45	21.15
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	25.39	26.09
			QPSK	75	0	75	0	23.45	24.15
			16QAM	1	74	1	0	23.85	24.55
			16QAM	75	0	75	0	22.43	23.13
			64QAM	1	74	1	0	23.44	24.14

			64QAM	75	0	75	0	22.46	23.16
			256QAM	1	74	1	0	20.26	20.96
			256QAM	75	0	75	0	20.46	21.16
15MHz/20M Hz	2583.3	2600.4	QPSK	1	74	1	0	25.42	26.12
			QPSK	75	0	100	0	23.46	24.16
			16QAM	1	74	1	0	23.85	24.55
			16QAM	75	0	100	0	22.45	23.15
			64QAM	1	74	1	0	23.54	24.24
			64QAM	75	0	100	0	22.43	23.13
			256QAM	1	74	1	0	20.36	21.06
			256QAM	75	0	100	0	20.43	21.13
20MHz/5MH z	2590.5	2602.2	QPSK	1	99	1	0	25.46	26.16
			QPSK	100	0	25	0	23.46	24.16
			16QAM	1	99	1	0	23.91	24.61
			16QAM	100	0	25	0	22.48	23.18
			64QAM	1	99	1	0	23.42	24.12
			64QAM	100	0	25	0	22.45	23.15
			256QAM	1	99	1	0	20.35	21.05
			256QAM	100	0	25	0	20.44	21.14
20MHz/10M Hz	2588.1	2602.5	QPSK	1	99	1	0	25.44	26.14
			QPSK	100	0	50	0	23.48	24.18
			16QAM	1	99	1	0	23.92	24.62
			16QAM	100	0	50	0	22.50	23.20
			64QAM	1	99	1	0	23.46	24.16
			64QAM	100	0	50	0	22.50	23.20
			256QAM	1	99	1	0	20.39	21.09
			256QAM	100	0	50	0	20.49	21.19
20MHz/15M Hz	2585.6	2602.7	QPSK	1	99	1	0	25.43	26.13
			QPSK	100	0	75	0	23.49	24.19
			16QAM	1	99	1	0	23.96	24.66
			16QAM	100	0	75	0	22.49	23.19
			64QAM	1	99	1	0	23.43	24.13
			64QAM	100	0	75	0	22.52	23.22
			256QAM	1	99	1	0	20.26	20.96
			256QAM	100	0	75	0	20.49	21.19
20MHz/20M Hz	2583.1	2602.9	QPSK	1	99	1	0	25.42	26.12
			QPSK	100	0	100	0	23.51	24.21
			16QAM	1	99	1	0	23.84	24.54
			16QAM	100	0	100	0	22.50	23.20
			64QAM	1	99	1	0	23.48	24.18
			64QAM	100	0	100	0	22.45	23.15
			256QAM	1	99	1	0	20.35	21.05
			256QAM	100	0	100	0	20.49	21.19

LTE CA band 48C

Limits: $\leq 23\text{dBm}/10\text{MHz}$

BW (MHz)	PCC Freq (MHz)	SCC Freq (MHz)	Modulation	PCC RB	SCC RB	Conducted Power (dBm/10MHz)	Antenna Gain	EIRP (dBm/10MHz)	Margin
5MHz/ 20MHz	3615.8	3627.5	QPSK	1 RB high	1 RB low	24.33	-3	21.33	1.67
			QPSK	100% RB	100% RB	19.38	-3	16.38	6.62
			Q16	1 RB high	1 RB low	23.38	-3	20.38	2.62
			Q16	100% RB	100% RB	18.40	-3	15.40	7.60
			Q64	1 RB high	1 RB low	22.39	-3	19.39	3.61
			Q64	100% RB	100% RB	18.41	-3	15.41	7.59
			Q256	1 RB high	1 RB low	19.48	-3	16.48	6.52
			Q256	100% RB	100% RB	16.40	-3	13.40	9.60
10MHz/ 20MHz	3615.6	3630	QPSK	1 RB high	1 RB low	24.27	-3	21.27	1.73
			QPSK	100% RB	100% RB	18.55	-3	15.55	7.45
			Q16	1 RB high	1 RB low	23.31	-3	20.31	2.69
			Q16	100% RB	100% RB	17.49	-3	14.49	8.51
			Q64	1 RB high	1 RB low	22.41	-3	19.41	3.59
			Q64	100% RB	100% RB	17.43	-3	14.43	8.57
			Q256	1 RB high	1 RB low	19.30	-3	16.30	6.70
			Q256	100% RB	100% RB	15.48	-3	12.48	10.52
15MHz/ 20MHz	3615.3	3632.4	QPSK	1 RB high	1 RB low	24.14	-3	21.14	1.86
			QPSK	100% RB	100% RB	17.21	-3	14.21	8.79
			Q16	1 RB high	1 RB low	23.19	-3	20.19	2.81
			Q16	100% RB	100% RB	16.06	-3	13.06	9.94
			Q64	1 RB high	1 RB low	22.25	-3	19.25	3.75
			Q64	100% RB	100% RB	16.09	-3	13.09	9.91
			Q256	1 RB high	1 RB low	19.16	-3	16.16	6.84
			Q256	100% RB	100% RB	14.06	-3	11.06	11.94
20MHz/ 5MHz	3622.5	3634.2	QPSK	1 RB high	1 RB low	24.33	-3	21.33	1.67
			QPSK	100% RB	100% RB	19.55	-3	16.55	6.45
			Q16	1 RB high	1 RB low	23.38	-3	20.38	2.62
			Q16	100% RB	100% RB	18.53	-3	15.53	7.47
			Q64	1 RB high	1 RB low	22.39	-3	19.39	3.61
			Q64	100% RB	100% RB	18.52	-3	15.52	7.48
			Q256	1 RB high	1 RB low	19.39	-3	16.39	6.61
			Q256	100% RB	100% RB	16.53	-3	13.53	9.47
20MHz/ 10MHz	3620.1	3634.5	QPSK	1 RB high	1 RB low	24.36	-3	21.36	1.64
			QPSK	100% RB	100% RB	18.56	-3	15.56	7.44
			Q16	1 RB high	1 RB low	23.28	-3	20.28	2.72
			Q16	100% RB	100% RB	17.42	-3	14.42	8.58

			Q64	1 RB high	1 RB low	22.32	-3	19.32	3.68
			Q64	100% RB	100% RB	17.45	-3	14.45	8.55
			Q256	1 RB high	1 RB low	19.27	-3	16.27	6.73
			Q256	100% RB	100% RB	15.51	-3	12.51	10.49
20MHz/ 15MHz	3617.6	3634.7	QPSK	1 RB high	1 RB low	24.10	-3	21.10	1.90
			QPSK	100% RB	100% RB	17.31	-3	14.31	8.69
			Q16	1 RB high	1 RB low	23.18	-3	20.18	2.82
			Q16	100% RB	100% RB	16.18	-3	13.18	9.82
			Q64	1 RB high	1 RB low	22.31	-3	19.31	3.69
			Q64	100% RB	100% RB	16.14	-3	13.14	9.86
			Q256	1 RB high	1 RB low	19.13	-3	16.13	6.87
			Q256	100% RB	100% RB	14.17	-3	11.17	11.83
20MHz/20MHz	3615.1	3634.9	QPSK	1 RB high	1 RB low	24.14	-3	21.14	1.86
			QPSK	100% RB	100% RB	16.11	-3	13.11	9.89
			Q16	1 RB high	1 RB low	23.17	-3	20.17	2.83
			Q16	100% RB	100% RB	15.02	-3	12.02	10.98
			Q64	1 RB high	1 RB low	22.11	-3	19.11	3.89
			Q64	100% RB	100% RB	15.14	-3	12.14	10.86
			Q256	1 RB high	1 RB low	19.07	-3	16.07	6.93
			Q256	100% RB	100% RB	12.96	-3	9.96	13.04

LTE CA band 66B
Limits: $\leq 30\text{dBm}(1\text{W})$

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm) (Gt-Lc =-0.12)
				Size	Offset	Size	Offset		
5MHz/5MHz	1752.6	1757.4	QPSK	1	24	1	0	22.76	22.64
			QPSK	25	0	25	0	20.83	20.71
			16QAM	1	24	1	0	21.72	21.60
			16QAM	25	0	25	0	19.80	19.68
			64QAM	1	24	1	0	20.77	20.65
			64QAM	25	0	25	0	19.79	19.67
			256QAM	1	24	1	0	17.74	17.62
			256QAM	25	0	25	0	17.80	17.68
5MHz/10MHz	1750.3	1757.5	QPSK	1	24	1	0	22.69	22.57
			QPSK	25	0	50	0	20.71	20.59
			16QAM	1	24	1	0	21.68	21.56
			16QAM	25	0	50	0	19.67	19.55
			64QAM	1	24	1	0	20.69	20.57
			64QAM	25	0	50	0	19.77	19.65
			256QAM	1	24	1	0	17.70	17.58
			256QAM	25	0	50	0	17.68	17.56
5MHz/15MHz	1748.1	1757.4	QPSK	1	24	1	0	22.72	22.60
			QPSK	25	0	75	0	20.73	20.61
			16QAM	1	24	1	0	21.77	21.65
			16QAM	25	0	75	0	19.74	19.62
			64QAM	1	24	1	0	20.76	20.64
			64QAM	25	0	75	0	19.69	19.57
			256QAM	1	24	1	0	17.77	17.65
			256QAM	25	0	75	0	17.66	17.54
10MHz/5MHz	1752.5	1759.7	QPSK	1	49	1	0	22.64	22.52
			QPSK	50	0	25	0	20.73	20.61
			16QAM	1	49	1	0	21.64	21.52
			16QAM	50	0	25	0	19.78	19.66
			64QAM	1	49	1	0	20.81	20.69
			64QAM	50	0	25	0	19.75	19.63
			256QAM	1	49	1	0	17.63	17.51
			256QAM	50	0	25	0	17.67	17.55
10MHz/10MHz	1750.1	1760	QPSK	1	49	1	0	22.62	22.50
			QPSK	50	0	50	0	20.73	20.61
			16QAM	1	49	1	0	21.64	21.52
			16QAM	50	0	50	0	19.77	19.65
			64QAM	1	49	1	0	20.65	20.53

			64QAM	50	0	50	0	19.74	19.62
			256QAM	1	49	1	0	17.58	17.46
			256QAM	50	0	50	0	17.67	17.55
15MHz/5MHz	1752.6	1761.9	QPSK	1	74	1	0	22.69	22.57
			QPSK	75	0	25	0	20.72	20.60
			16QAM	1	74	1	0	21.72	21.60
			16QAM	75	0	25	0	19.76	19.64
			64QAM	1	74	1	0	20.72	20.60
			64QAM	75	0	25	0	19.71	19.59
			256QAM	1	74	1	0	17.62	17.50
			256QAM	75	0	25	0	17.71	17.59

LTE CA band 66C
Limits: ≤30dBm(1W)

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power (dBm)	EIRP(dBm)(Gt-Lc =-0.12)
				Size	Offset	Size	Offset		
5MHz/20MHz	1745.8	1757.5	QPSK	1	24	1	0	22.81	22.69
			QPSK	25	0	100	0	20.73	20.61
			16QAM	1	24	1	0	21.73	21.61
			16QAM	25	0	100	0	19.72	19.60
			64QAM	1	24	1	0	20.78	20.66
			64QAM	25	0	100	0	19.72	19.60
			256QAM	1	24	1	0	17.69	17.57
			256QAM	25	0	100	0	17.68	17.56
10MHz/15MHz	1747.9	1759.9	QPSK	1	49	1	0	22.65	22.53
			QPSK	50	0	75	0	20.73	20.61
			16QAM	1	49	1	0	21.65	21.53
			16QAM	50	0	75	0	19.71	19.59
			64QAM	1	49	1	0	20.67	20.55
			64QAM	50	0	75	0	19.71	19.59
			256QAM	1	49	1	0	17.55	17.43
			256QAM	50	0	75	0	17.66	17.54
10MHz/20MHz	1745.6	1760	QPSK	1	49	1	0	22.66	22.54
			QPSK	50	0	100	0	20.72	20.60
			16QAM	1	49	1	0	21.73	21.61
			16QAM	50	0	100	0	19.76	19.64
			64QAM	1	49	1	0	20.72	20.60
			64QAM	50	0	100	0	19.71	19.59
			256QAM	1	49	1	0	17.62	17.50
			256QAM	50	0	100	0	17.72	17.60
15MHz/10MHz	1750.1	1762.1	QPSK	1	74	1	0	22.67	22.55
			QPSK	75	0	50	0	20.74	20.62
			16QAM	1	74	1	0	21.61	21.49
			16QAM	75	0	50	0	19.72	19.60
			64QAM	1	74	1	0	20.60	20.48
			64QAM	75	0	50	0	19.69	19.57
			256QAM	1	74	1	0	17.59	17.47
			256QAM	75	0	50	0	17.73	17.61
15MHz/15MHz	1747.5	1762.5	QPSK	1	74	1	0	22.61	22.49
			QPSK	75	0	75	0	20.79	20.67
			16QAM	1	74	1	0	21.71	21.59
			16QAM	75	0	75	0	19.74	19.62

			64QAM	1	74	1	0	20.47	20.35
			64QAM	75	0	75	0	19.73	19.61
			256QAM	1	74	1	0	17.65	17.53
			256QAM	75	0	75	0	17.68	17.56
15MHz/20MHz z	1745.3	1762.4	QPSK	1	74	1	0	22.68	22.56
			QPSK	75	0	100	0	20.72	20.60
			16QAM	1	74	1	0	21.57	21.45
			16QAM	75	0	100	0	19.79	19.67
			64QAM	1	74	1	0	20.72	20.60
			64QAM	75	0	100	0	19.77	19.65
			256QAM	1	74	1	0	17.61	17.49
			256QAM	75	0	100	0	17.72	17.60
20MHz/5MHz	1752.5	1764.2	QPSK	1	99	1	0	22.65	22.53
			QPSK	100	0	25	0	20.73	20.61
			16QAM	1	99	1	0	21.48	21.36
			16QAM	100	0	25	0	19.73	19.61
			64QAM	1	99	1	0	20.59	20.47
			64QAM	100	0	25	0	19.72	19.60
			256QAM	1	99	1	0	17.51	17.39
			256QAM	100	0	25	0	17.71	17.59
20MHz/10MHz z	1750.1	1764.5	QPSK	1	99	1	0	22.64	22.52
			QPSK	100	0	50	0	20.75	20.63
			16QAM	1	99	1	0	21.56	21.44
			16QAM	100	0	50	0	19.71	19.59
			64QAM	1	99	1	0	20.65	20.53
			64QAM	100	0	50	0	19.77	19.65
			256QAM	1	99	1	0	17.61	17.49
			256QAM	100	0	50	0	17.72	17.60
20MHz/15MHz z	1747.6	1764.7	QPSK	1	99	1	0	22.63	22.51
			QPSK	100	0	75	0	20.71	20.59
			16QAM	1	99	1	0	21.53	21.41
			16QAM	100	0	75	0	19.72	19.60
			64QAM	1	99	1	0	20.64	20.52
			64QAM	100	0	75	0	19.76	19.64
			256QAM	1	99	1	0	17.53	17.41
			256QAM	100	0	75	0	17.71	17.59
20MHz/20MHz z	1745.1	1764.9	QPSK	1	99	1	0	22.66	22.54
			QPSK	100	0	100	0	20.75	20.63
			16QAM	1	99	1	0	21.51	21.39
			16QAM	100	0	100	0	19.72	19.60
			64QAM	1	99	1	0	20.57	20.45
			64QAM	100	0	100	0	19.72	19.60
			256QAM	1	99	1	0	17.49	17.37

			256QAM	100	0	100	0	17.75	17.63
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Note: Expanded measurement uncertainty is $U = 0.578 \text{ dB}$, $k = 2$.

A.2 Emission Limit

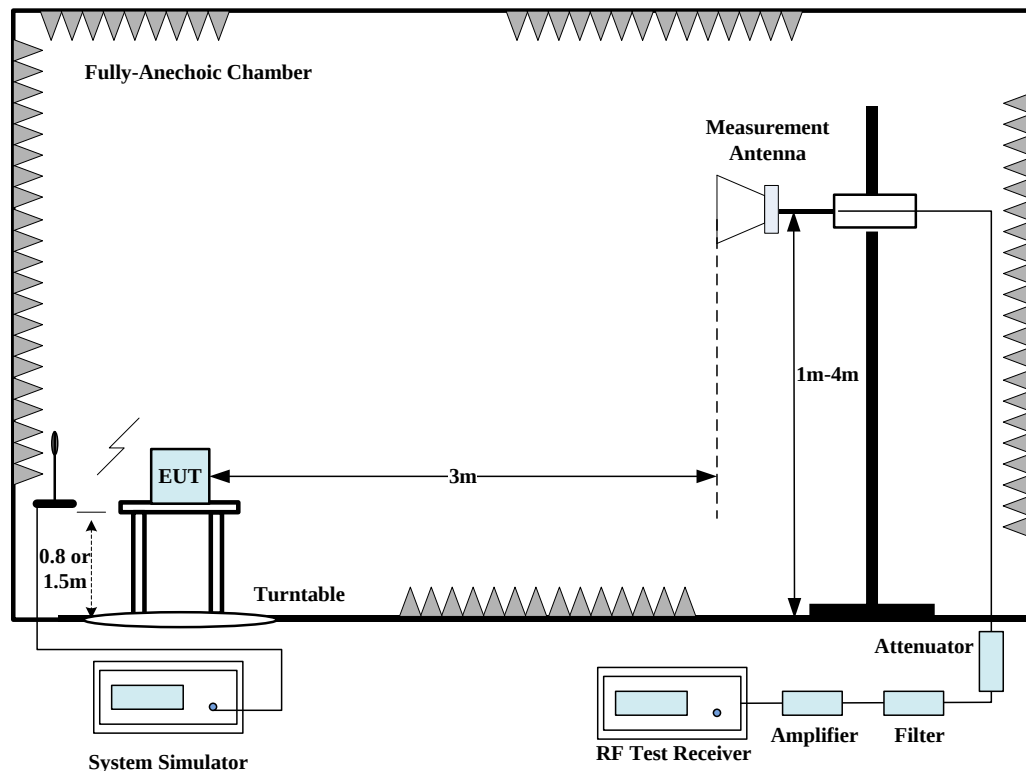
A.2.1 Measurement Method

The measurement procedures in TIA-603E-2016 are used.

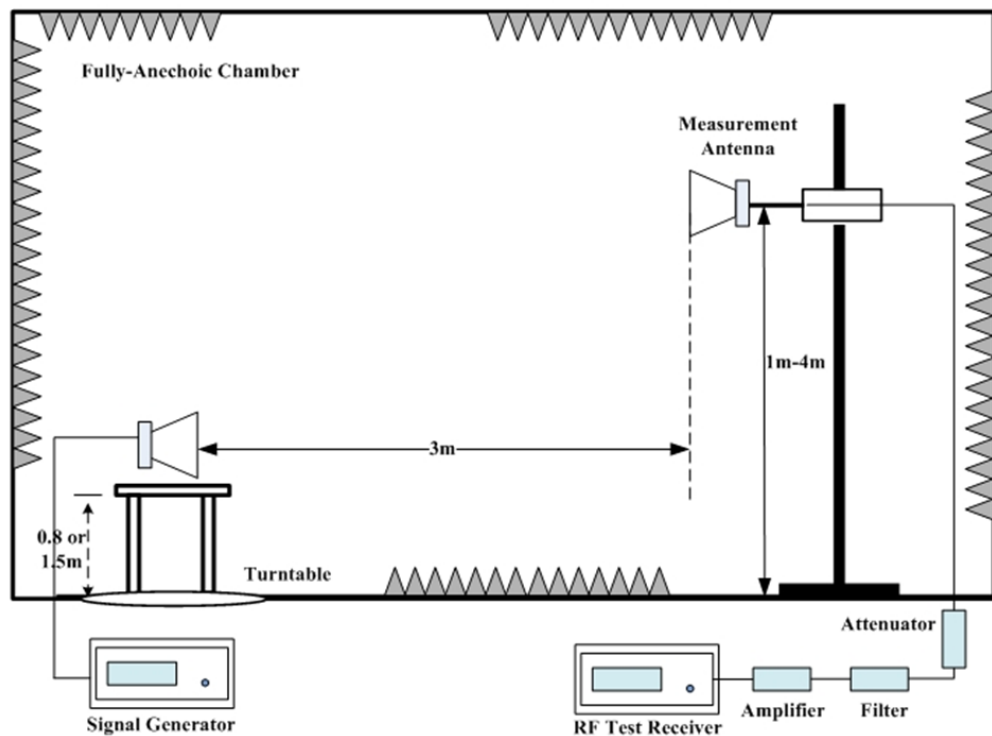
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of each LTE Band.

The procedure of radiated spurious emissions is as follows:

For measurements performed at frequencies less than or equal to 1 GHz, the EUT was placed on a 80cm-high non-conductive support; For measurements performed at frequencies above 1GHz,EUT was placed on a 1.5-meter-high non-conductive support. A measurement antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. In the initial test, the height of the measurement antenna was varied from 1 m to 4 m for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



1. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
2. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. The height of measurement antenna varied between 1 m to 4 m to maximize the received signal amplitude for each emission that was detected and measured in the initial test. A power (P_{Mea}) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test was performed with the measurement antenna in both vertical and horizontal polarization.

3. The Path loss (P_{pl}) between the Signal Source and the Substitution Antenna and the Substitution Antenna Gain (G_a) were recorded after test. A amplifier was connected in for the test. The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.
4. The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

A.2.2 Measurement Limit

FDD Band 7/TDD Band 38/41: Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall

not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FDD Band 12/13/17/71: Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FDD Band 2/25: Part 24.238 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

LTE Band 26(814MHz–824MHz): Part 90.691 states that out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FDD Band 5/26(824MHz–849MHz): Part 22.917 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

LTE Band 30: Part 27.53(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz. FDD Band 4/66: Part 27.53(h) specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the

transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of each LTE Band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The range of evaluated frequency is from 30MHz to 26GHz.

Note 1: All CA UL combination bands have been tested, only the worst cases are reported.

Note 2: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
LTE Bands	Low	9kHz-26GHz	Pass
	Middle	9kHz-26GHz	Pass
	High	9kHz-26GHz	Pass

A.2.5 Sweep Table

Subrange	RBW	VBW
9~150 kHz	0.2kHz	0.6kHz
150kHz~30MHz	9kHz	27kHz
30MHz~1 GHz	100KHz	300KHz
1~20 GHz	1 MHz	3 MHz

A.2.6 Measurement Result

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5019.00	-61.85	5.10	10.54	-56.41	-25.00	31.41	V
7520.00	-54.07	7.71	12.37	-49.41	-25.00	24.41	V
10008.50	-52.37	9.35	13.38	-48.34	-25.00	23.34	V
12502.00	-47.04	12.35	13.60	-45.79	-25.00	20.79	V
15005.00	-45.05	14.75	14.10	-45.70	-25.00	20.70	H
17523.00	-37.33	19.69	14.42	-42.60	-25.00	17.60	H

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5058.00	-62.22	5.35	10.54	-57.03	-25.00	32.03	V
7591.00	-55.99	7.56	12.31	-51.24	-25.00	26.24	V
10127.50	-54.27	8.93	13.23	-49.97	-25.00	24.97	V
12664.50	-50.11	11.64	13.54	-48.21	-25.00	23.21	V
15218.00	-46.44	15.69	13.98	-48.15	-25.00	23.15	V
17756.50	-38.35	19.56	14.66	-43.25	-25.00	18.25	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5124.50	-61.34	5.58	10.57	-56.35	-25.00	31.35	V
7707.00	-57.37	6.73	12.40	-51.70	-25.00	26.70	V
10279.00	-50.39	10.69	13.30	-47.78	-25.00	22.78	V
12838.50	-47.61	13.04	13.50	-47.15	-25.00	22.15	H
15415.50	-45.54	14.92	13.77	-46.69	-25.00	21.69	H
17967.50	-37.05	20.01	14.80	-42.26	-25.00	17.26	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1409.50	-47.04	1.93	4.91	2.15	-46.21	-13.00	33.21	V
2094.50	-39.86	3.52	4.89	2.15	-40.64	-13.00	27.64	H
2807.50	-36.20	5.22	7.26	2.15	-36.31	-13.00	23.31	V
3503.50	-60.25	3.05	8.25	2.15	-57.20	-13.00	44.20	H
4208.00	-57.92	4.64	9.36	2.15	-55.35	-13.00	42.35	H
4893.00	-58.53	4.83	10.11	2.15	-55.40	-13.00	42.40	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.50	-47.87	1.89	5.15	2.15	-46.76	-13.00	33.76	H
2119.50	-39.95	3.64	5.18	2.15	-40.56	-13.00	27.56	H
2840.50	-35.62	5.04	7.29	2.15	-35.52	-13.00	22.52	V
3537.00	-60.38	3.28	8.29	2.15	-57.52	-13.00	44.52	H
4235.00	-59.32	4.48	9.38	2.15	-56.57	-13.00	43.57	V
4940.50	-58.67	4.90	10.28	2.15	-55.44	-13.00	42.44	H

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1435.50	-47.99	1.94	5.23	2.15	-46.85	-13.00	33.85	V
2143.00	-39.64	3.71	5.27	2.15	-40.23	-13.00	27.23	V
2853.50	-36.36	5.06	7.14	2.15	-36.43	-13.00	23.43	H
3590.50	-60.03	4.15	8.39	2.15	-57.94	-13.00	44.94	H
4292.00	-57.68	4.65	9.40	2.15	-55.08	-13.00	42.08	V
4998.00	-57.88	5.17	10.40	2.15	-54.80	-13.00	41.80	H

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1558.07	-45.45	3.47	5.40	2.15	-45.67	-13.00	32.67	H
2337.76	-37.65	4.44	5.61	2.15	-38.63	-13.00	25.63	H
3122.50	-58.13	5.39	7.29	2.15	-58.38	-13.00	45.38	V
3902.50	-58.13	6.11	8.76	2.15	-57.63	-13.00	44.63	H
4680.00	-57.90	6.49	9.58	2.15	-56.96	-13.00	43.96	H
5460.00	-56.20	6.91	10.54	2.15	-54.72	-13.00	41.72	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-63.29	3.47	5.39	0.00	-63.52	-40.00	23.52	H
2346.70	-54.42	4.45	5.64	2.15	-55.38	-13.00	42.38	H
3127.50	-64.10	5.40	7.31	2.15	-64.34	-13.00	51.34	H
3907.50	-64.05	6.11	8.77	2.15	-63.54	-13.00	50.54	V
4695.00	-62.80	6.50	9.60	2.15	-61.85	-13.00	48.85	V
5475.00	-62.13	6.97	10.57	2.15	-60.68	-13.00	47.68	H

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1556.20	-44.38	3.47	5.40	2.15	-44.60	-13.00	31.60	H
2339.25	-37.53	4.44	5.62	2.15	-38.50	-13.00	25.50	H
3132.50	-57.65	5.39	7.32	2.15	-57.87	-13.00	44.87	H
3910.00	-57.29	6.12	8.77	2.15	-56.79	-13.00	43.79	H
4715.00	-57.10	6.52	9.62	2.15	-56.15	-13.00	43.15	H
5490.00	-54.97	7.02	10.59	2.15	-53.55	-13.00	40.55	V

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3692.00	-62.22	3.69	8.22	-57.69	-13.00	44.69	V
5539.00	-61.07	5.79	10.99	-55.87	-13.00	42.87	H
7389.50	-53.43	8.16	12.10	-49.49	-13.00	36.49	V
9253.50	-49.95	8.85	13.70	-45.10	-13.00	32.10	V
11092.00	-51.04	9.65	13.49	-47.20	-13.00	34.20	V
12966.50	-48.88	12.53	13.70	-47.71	-13.00	34.71	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3757.50	-62.74	3.83	8.62	-57.95	-13.00	44.95	H
5649.00	-60.61	5.60	11.00	-55.21	-13.00	42.21	V
7535.50	-54.66	7.46	12.39	-49.73	-13.00	36.73	H
9412.50	-52.63	9.06	13.60	-48.09	-13.00	35.09	V
11300.50	-50.04	10.61	13.60	-47.05	-13.00	34.05	H
13177.50	-47.04	13.15	14.23	-45.96	-13.00	32.96	V

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3826.50	-62.66	3.92	8.62	-57.96	-13.00	44.96	V
5740.50	-60.00	5.86	10.92	-54.94	-13.00	41.94	H
7650.50	-56.99	6.86	12.35	-51.50	-13.00	38.50	V
9578.00	-53.16	8.65	13.46	-48.35	-13.00	35.35	V
11500.50	-48.83	12.24	13.40	-47.67	-13.00	34.67	V
13402.00	-47.98	12.46	14.50	-45.94	-13.00	32.94	H

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 26797

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.00	-46.53	2.60	6.39	2.15	-44.89	-13.00	31.89	V
2474.00	-38.08	4.33	5.83	2.15	-38.73	-13.00	25.73	H
3285.00	-60.47	3.70	7.70	2.15	-58.62	-13.00	45.62	H
4131.50	-59.34	4.66	9.34	2.15	-56.81	-13.00	43.81	H
4939.50	-59.11	4.90	10.28	2.15	-55.88	-13.00	42.88	H
5777.00	-58.05	5.68	10.90	2.15	-54.98	-13.00	41.98	V

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 26915

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1687.50	-46.16	2.71	6.31	2.15	-44.71	-13.00	31.71	V
2518.50	-38.97	4.30	5.80	2.15	-39.62	-13.00	26.62	H
3344.00	-61.92	3.20	7.89	2.15	-59.38	-13.00	46.38	V
4176.50	-58.86	4.03	9.32	2.15	-55.72	-13.00	42.72	H
5024.50	-59.03	5.49	10.55	2.15	-56.12	-13.00	43.12	H
5870.00	-58.18	5.63	10.83	2.15	-55.13	-13.00	42.13	V

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 27033

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1709.50	-45.43	2.69	5.88	2.15	-44.39	-13.00	31.39	H
2558.50	-38.31	4.53	5.92	2.15	-39.07	-13.00	26.07	H
3406.50	-61.94	3.48	8.26	2.15	-59.31	-13.00	46.31	V
4254.00	-59.11	4.89	9.40	2.15	-56.75	-13.00	43.75	H
5075.00	-59.02	5.30	10.52	2.15	-55.95	-13.00	42.95	H
5923.50	-57.65	6.09	10.95	2.15	-54.94	-13.00	41.94	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26697

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1628.00	-47.00	2.39	6.27	2.15	-45.27	-13.00	32.27	H
2443.50	-38.21	4.56	5.91	2.15	-39.01	-13.00	26.01	V
3264.50	-61.83	3.01	7.70	2.15	-59.29	-13.00	46.29	H
4079.00	-59.34	3.82	9.12	2.15	-56.19	-13.00	43.19	V
4900.50	-59.08	4.87	10.20	2.15	-55.90	-13.00	42.90	H
5717.00	-57.88	5.92	10.97	2.15	-54.98	-13.00	41.98	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26740

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1637.50	-45.61	3.56	5.25	2.15	-46.07	-13.00	33.07	H
2455.50	-39.41	4.58	5.97	2.15	-40.17	-13.00	27.17	H
3275.50	-59.11	5.28	7.66	2.15	-58.88	-13.00	45.88	V
4096.00	-58.56	6.04	9.00	2.15	-57.75	-13.00	44.75	V
4913.50	-58.13	6.73	9.81	2.15	-57.20	-13.00	44.20	H
5731.50	-56.04	7.29	10.55	2.15	-54.93	-13.00	41.93	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26783

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.50	-47.38	2.40	6.33	2.15	-45.60	-13.00	32.60	H
2480.00	-24.27	4.34	5.82	2.15	-24.94	-13.00	11.94	V
3295.00	-60.91	3.60	7.70	2.15	-58.96	-13.00	45.96	V
4126.50	-59.37	4.70	9.33	2.15	-56.89	-13.00	43.89	H
4953.50	-58.32	4.91	10.35	2.15	-55.03	-13.00	42.03	H
5768.00	-57.70	5.67	10.90	2.15	-54.62	-13.00	41.62	H

LTE Band 30, 5MHz, QPSK, Channel 27685

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4604.00	-72.49	4.64	9.75	-67.38	-40.00	27.38	H
6923.50	-68.13	6.47	11.60	-63.00	-40.00	23.00	V
9235.50	-63.75	8.85	13.67	-58.93	-40.00	18.93	V
11545.50	-60.43	10.64	13.35	-57.72	-40.00	17.72	H
13830.50	-57.07	13.06	14.70	-55.43	-40.00	15.43	H
16155.50	-51.70	18.61	13.51	-56.80	-40.00	16.80	V

LTE Band 30, 5MHz, QPSK, Channel 27710

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4607.50	-72.31	4.65	9.74	-67.22	-40.00	27.22	V
6928.50	-67.93	6.47	11.60	-62.80	-40.00	22.80	H
9253.50	-63.82	8.85	13.70	-58.97	-40.00	18.97	H
11549.50	-60.16	10.67	13.35	-57.48	-40.00	17.48	H
13855.50	-57.94	13.09	14.70	-56.33	-40.00	16.33	H
16182.50	-51.11	18.47	13.56	-56.02	-40.00	16.02	V

LTE Band 30, 5MHz, QPSK, Channel 27735

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4611.50	-72.90	4.66	9.74	-67.82	-40.00	27.82	H
6941.00	-67.83	6.47	11.60	-62.70	-40.00	22.70	H
9245.50	-63.74	8.85	13.69	-58.90	-40.00	18.90	H
11553.00	-60.45	10.69	13.35	-57.79	-40.00	17.79	V
13866.50	-57.78	13.11	14.70	-56.19	-40.00	16.19	H
16195.00	-51.17	18.40	13.59	-55.98	-40.00	15.98	V

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4996.50	-60.65	5.18	10.40	-55.43	-25.00	30.43	H
7481.50	-53.72	7.69	12.28	-49.13	-25.00	24.13	V
9987.00	-52.97	9.37	13.39	-48.95	-25.00	23.95	V
12481.50	-47.89	12.32	13.58	-46.63	-25.00	21.63	H
14995.50	-46.22	14.76	14.10	-46.88	-25.00	21.88	H
17479.50	-37.43	19.76	14.38	-42.81	-25.00	17.81	H

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.50	-59.59	5.75	10.51	-54.83	-25.00	29.83	V
7778.00	-56.78	7.37	12.40	-51.75	-25.00	26.75	V
10375.50	-50.81	10.72	13.30	-48.23	-25.00	23.23	H
12968.50	-49.79	12.54	13.71	-48.62	-25.00	23.62	V
15566.00	-45.18	16.67	13.60	-48.25	-25.00	23.25	H
17981.50	-36.91	19.97	14.80	-42.08	-25.00	17.08	V

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-58.69	5.75	10.65	-53.79	-25.00	28.79	H
8063.00	-50.25	7.86	12.76	-45.35	-25.00	20.35	H
10739.00	-51.87	9.87	13.24	-48.50	-25.00	23.50	H
13439.50	-48.31	12.56	14.54	-46.33	-25.00	21.33	V
16112.50	-43.85	17.09	13.42	-47.52	-25.00	22.52	V
17985.50	-36.88	19.97	14.80	-42.05	-25.00	17.05	H

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3431.50	-73.17	3.28	8.28	-68.17	-13.00	55.17	V
5123.50	-71.50	5.58	10.57	-66.51	-13.00	53.51	V
6843.00	-67.91	6.54	11.51	-62.94	-13.00	49.94	V
8559.50	-64.69	8.50	13.20	-59.99	-13.00	46.99	H
10278.00	-60.48	10.69	13.30	-57.87	-13.00	44.87	H
11975.50	-56.95	12.28	13.00	-56.23	-13.00	43.23	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3498.00	-73.04	2.97	8.20	-67.81	-13.00	54.81	H
5237.00	-71.84	4.72	10.41	-66.15	-13.00	53.15	V
6990.50	-66.57	7.92	11.60	-62.89	-13.00	49.89	V
8726.50	-64.77	8.45	13.32	-59.90	-13.00	46.90	H
10457.00	-59.96	10.35	13.24	-57.07	-13.00	44.07	H
12221.50	-58.12	12.16	13.24	-57.04	-13.00	44.04	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.50	-71.79	2.98	8.36	-66.41	-13.00	53.41	V
5338.00	-68.44	6.18	10.51	-64.11	-13.00	51.11	V
7126.50	-67.53	6.60	11.70	-62.43	-13.00	49.43	H
8889.00	-65.60	8.04	13.40	-60.24	-13.00	47.24	H
10690.50	-62.31	10.00	13.21	-59.10	-13.00	46.10	H
12450.00	-57.96	12.94	13.55	-57.35	-13.00	44.35	H

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1333.50	-46.13	2.05	3.93	2.15	-46.40	-13.00	33.40	V
1992.00	-41.38	3.40	4.59	2.15	-42.34	-13.00	29.34	V
2653.50	-37.39	4.77	6.50	2.15	-37.81	-13.00	24.81	V
3323.50	-61.01	3.07	7.85	2.15	-58.38	-13.00	45.38	H
4002.50	-57.64	4.62	9.15	2.15	-55.26	-13.00	42.26	H
4672.00	-58.35	4.97	9.77	2.15	-55.70	-13.00	42.70	V

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1350.50	-46.74	1.78	4.05	2.15	-46.62	-13.00	33.62	V
2038.00	-41.34	3.42	4.78	2.15	-42.13	-13.00	29.13	H
2708.00	-36.40	4.88	6.67	2.15	-36.76	-13.00	23.76	H
3414.50	-60.89	3.22	8.26	2.15	-58.00	-13.00	45.00	V
4074.50	-59.32	4.34	9.13	2.15	-56.68	-13.00	43.68	H
4766.50	-59.21	4.81	9.83	2.15	-56.34	-13.00	43.34	H

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1378.00	-46.94	2.16	4.13	2.15	-47.12	-13.00	34.12	V
2097.00	-40.18	3.52	4.90	2.15	-40.95	-13.00	27.95	H
2778.50	-35.49	4.89	7.11	2.15	-35.42	-13.00	22.42	H
3467.50	-59.67	3.80	8.23	2.15	-57.39	-13.00	44.39	H
4169.00	-59.12	3.98	9.33	2.15	-55.92	-13.00	42.92	H
4872.50	-57.88	5.26	10.13	2.15	-55.16	-13.00	42.16	H

CA_5B, CH20450+20549, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1637.50	-44.77	3.56	5.25	2.15	-45.23	-13.00	32.23	V
2482.00	-38.44	4.61	6.05	2.15	-39.15	-13.00	26.15	V
3302.50	-59.32	5.29	7.73	2.15	-59.03	-13.00	46.03	V
4129.00	-57.88	6.05	9.03	2.15	-57.05	-13.00	44.05	H
4948.00	-56.87	6.69	9.85	2.15	-55.86	-13.00	42.86	V
5759.50	-56.20	7.25	10.55	2.15	-55.05	-13.00	42.05	H

CA_5B, CH20476+20575, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1672.00	-44.65	3.58	5.19	2.15	-45.19	-13.00	32.19	H
2496.50	-38.30	4.62	6.09	2.15	-38.98	-13.00	25.98	H
3358.00	-59.40	5.33	7.86	2.15	-59.02	-13.00	46.02	V
4196.50	-56.16	6.20	9.10	2.15	-55.41	-13.00	42.41	H
5015.00	-56.69	6.58	9.92	2.15	-55.50	-13.00	42.50	H
5848.00	-54.88	7.23	10.53	2.15	-53.73	-13.00	40.73	H

CA_5B, CH20501+20600, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1690.00	-44.33	3.59	5.16	2.15	-44.91	-13.00	31.91	H
2554.50	-38.16	4.67	6.20	2.15	-38.78	-13.00	25.78	H
3394.50	-58.85	5.36	7.95	2.15	-58.41	-13.00	45.41	V
4256.00	-56.62	6.23	9.16	2.15	-55.84	-13.00	42.84	V
5090.00	-57.92	6.74	10.03	2.15	-56.78	-13.00	43.78	V
5947.50	-55.40	7.47	10.51	2.15	-54.51	-13.00	41.51	H

CA_41C, CH39683+39800, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5001.50	-59.27	6.60	9.90	-55.97	-25.00	30.97	V
7494.00	-52.22	8.38	12.19	-48.41	-25.00	23.41	V
9992.50	-53.14	9.17	12.91	-49.40	-25.00	24.40	V
12494.00	-50.20	10.19	13.20	-47.19	-25.00	22.19	H
14993.00	-49.15	11.21	14.01	-46.35	-25.00	21.35	H
17487.50	-44.37	12.70	14.87	-42.20	-25.00	17.20	V

CA_41C, CH40528+40645, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5203.00	-58.16	6.96	10.18	-54.94	-25.00	29.94	H
7775.50	-55.07	8.32	12.42	-50.97	-25.00	25.97	H
10391.50	-49.23	9.79	13.06	-45.96	-25.00	20.96	H
12943.00	-50.75	10.49	13.47	-47.77	-25.00	22.77	V
15531.00	-49.19	11.52	13.70	-47.01	-25.00	22.01	V
16853.00	-42.77	12.05	13.74	-41.08	-25.00	16.08	H

CA_41C, CH41373+41490, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5368.50	-59.03	6.90	10.42	-55.51	-25.00	30.51	H
8066.50	-53.96	8.32	12.65	-49.63	-25.00	24.63	H
10727.50	-51.85	9.37	13.15	-48.07	-25.00	23.07	V
13442.00	-49.09	10.60	14.12	-45.57	-25.00	20.57	H
16128.50	-48.55	11.82	13.67	-46.70	-25.00	21.70	V
17475.00	-43.59	12.67	14.85	-41.41	-25.00	16.41	V

CA_66B, CH132022+132121, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3433.00	-60.09	5.40	8.04	-57.45	-13.00	44.45	H
5153.50	-58.59	6.89	10.11	-55.37	-13.00	42.37	H
6879.00	-56.61	7.78	11.45	-52.94	-13.00	39.94	V
8557.50	-53.10	8.57	13.01	-48.66	-13.00	35.66	V
10246.00	-51.45	9.46	13.00	-47.91	-13.00	34.91	H
11995.00	-49.71	10.07	13.00	-46.78	-13.00	33.78	H

CA_66B, CH132373+132472, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3510.50	-59.57	5.54	8.21	-56.90	-13.00	43.90	H
5240.50	-58.96	7.00	10.24	-55.72	-13.00	42.72	H
7001.00	-53.47	8.30	11.60	-50.17	-13.00	37.17	H
8776.00	-53.61	8.59	13.06	-49.14	-13.00	36.14	H
10449.00	-49.23	9.73	13.08	-45.88	-13.00	32.88	H
12167.50	-49.62	10.15	13.07	-46.70	-13.00	33.70	H

CA_66B, CH132523+132622, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3608.50	-59.00	6.43	8.35	-57.08	-13.00	44.08	H
5290.50	-58.86	6.99	10.31	-55.54	-13.00	42.54	V
7080.00	-55.22	8.18	11.70	-51.70	-13.00	38.70	V
8855.00	-53.96	8.76	13.07	-49.65	-13.00	36.65	V
10635.00	-52.16	9.29	13.13	-48.32	-13.00	35.32	H
12496.50	-49.72	10.18	13.20	-46.70	-13.00	33.70	H

CA_66C, CH132027+132171, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3468.50	-59.11	5.46	8.12	-56.45	-13.00	43.45	V
5139.50	-58.68	6.87	10.10	-55.45	-13.00	42.45	V
6857.50	-56.16	7.81	11.43	-52.54	-13.00	39.54	H
8606.00	-54.44	8.48	13.02	-49.90	-13.00	36.90	H
10317.00	-51.67	9.67	13.03	-48.31	-13.00	35.31	V
11935.50	-49.34	10.35	13.01	-46.68	-13.00	33.68	V

CA_66C, CH132328+132472, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3504.50	-59.79	5.53	8.21	-57.11	-13.00	44.11	V
5207.00	-59.14	6.97	10.19	-55.92	-13.00	42.92	H
7003.00	-54.47	8.29	11.60	-51.16	-13.00	38.16	H
8686.50	-53.46	8.38	13.04	-48.80	-13.00	35.80	H
10431.00	-50.77	9.75	13.07	-47.45	-13.00	34.45	H
12162.50	-49.36	10.17	13.07	-46.46	-13.00	33.46	H

CA_66C, CH132428+132572, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3593.00	-58.87	6.27	8.33	-56.81	-13.00	43.81	H
5367.00	-59.16	6.90	10.41	-55.65	-13.00	42.65	H
7086.50	-54.60	8.18	11.70	-51.08	-13.00	38.08	V
8891.00	-54.45	8.83	13.08	-50.20	-13.00	37.20	H
10702.50	-53.13	9.31	13.14	-49.30	-13.00	36.30	V
12457.50	-49.93	10.29	13.18	-47.04	-13.00	34.04	V

CA 2A_13A, CH18625+23205,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1563.00	-45.91	3.48	5.39	0.00	-46.15	-40.00	6.15	H
2336.50	-38.88	4.44	5.61	2.15	-39.86	-13.00	26.86	H
4682.00	-58.44	6.49	9.58	2.15	-57.50	-13.00	44.50	H
5453.00	-56.91	6.88	10.53	2.15	-55.41	-13.00	42.41	V
6239.50	-56.40	7.43	10.74	2.15	-55.24	-13.00	42.24	V
7018.50	-53.41	8.27	11.62	2.15	-52.21	-13.00	39.21	H

CA 2A_13A, CH18900+23205,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1562.00	-45.68	3.48	5.39	0.00	-45.92	-40.00	5.92	V
2343.50	-38.84	4.45	5.63	2.15	-39.81	-13.00	26.81	V
4694.50	-58.51	6.50	9.59	2.15	-57.57	-13.00	44.57	H
5471.50	-57.48	6.95	10.56	2.15	-56.02	-13.00	43.02	V
6254.50	-56.45	7.45	10.75	2.15	-55.30	-13.00	42.30	H
7037.50	-53.63	8.24	11.65	2.15	-52.37	-13.00	39.37	V

CA 2A_13A, CH19175+23205,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1566.50	-45.70	3.48	5.38	0.00	-45.95	-40.00	5.95	V
2354.50	-38.00	4.46	5.66	2.15	-38.95	-13.00	25.95	V
3914.00	-58.57	6.12	8.78	2.15	-58.06	-13.00	45.06	H
4708.50	-58.75	6.51	9.61	2.15	-57.80	-13.00	44.80	H
5488.50	-57.91	7.02	10.58	2.15	-56.50	-13.00	43.50	V
6277.00	-55.14	7.48	10.78	2.15	-53.99	-13.00	40.99	H

CA 4A_7A, CH19745+20775,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-57.95	6.61	9.90	-54.66	-25.00	29.66	V
7518.50	-53.46	8.32	12.21	-49.57	-25.00	24.57	V
10000.00	-51.55	9.18	12.90	-47.83	-25.00	22.83	V
12518.00	-49.93	10.23	13.21	-46.95	-25.00	21.95	H
15010.00	-48.81	11.23	13.99	-46.05	-25.00	21.05	V
17536.00	-44.30	12.86	14.95	-42.21	-25.00	17.21	H

CA 4A_7A, CH20175+21100,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5085.00	-54.78	6.73	10.02	-51.49	-25.00	26.49	H
7605.50	-48.86	8.00	12.28	-44.58	-25.00	19.58	H
10147.00	-48.07	9.39	12.96	-44.50	-25.00	19.50	V
12679.00	-44.82	10.33	13.31	-41.84	-25.00	16.84	V
15221.00	-43.68	11.37	13.87	-41.18	-25.00	16.18	H
17734.00	-39.39	12.37	15.23	-36.53	-25.00	11.53	H

CA 4A_7A, CH20375+21425,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5139.00	-58.30	6.86	10.09	-55.07	-25.00	30.07	H
7691.00	-55.26	8.39	12.35	-51.30	-25.00	26.30	H
10269.00	-51.26	9.54	13.01	-47.79	-25.00	22.79	V
12837.00	-48.82	10.67	13.40	-46.09	-25.00	21.09	V
15418.00	-48.97	11.42	13.75	-46.64	-25.00	21.64	V
17991.00	-44.81	12.90	15.59	-42.12	-25.00	17.12	V

CA 5A_30A, CH20407+27685, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4606.00	-59.93	6.46	9.51	-61.88	-40.00	21.88	V
6941.00	-56.24	7.84	11.53	-57.55	-40.00	17.55	V
9236.50	-52.19	9.01	13.24	-52.96	-40.00	12.96	V
11550.50	-49.72	9.81	13.09	-51.44	-40.00	11.44	V
13832.50	-48.81	10.67	14.40	-50.08	-40.00	10.08	H
16151.00	-48.14	11.79	13.67	-51.26	-40.00	11.26	H

CA 5A_30A, CH20525+27710, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4603.00	-54.64	6.47	9.50	-56.61	-40.00	16.61	V
6942.50	-51.28	7.85	11.53	-52.60	-40.00	12.60	V
9257.00	-45.82	9.06	13.25	-46.63	-40.00	6.63	H
11537.50	-45.71	9.81	13.09	-47.43	-40.00	7.43	V
13858.00	-44.51	10.72	14.41	-45.82	-40.00	5.82	V
16190.00	-42.90	11.74	13.66	-45.98	-40.00	5.98	H

CA 5A_30A, CH20643+27735, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4633.50	-59.84	6.45	9.53	-61.76	-40.00	21.76	V
6934.50	-56.62	7.79	11.52	-57.89	-40.00	17.89	V
9259.50	-52.84	9.06	13.26	-53.64	-40.00	13.64	H
11550.00	-50.80	9.81	13.09	-52.52	-40.00	12.52	V
13864.50	-50.02	10.73	14.42	-51.33	-40.00	11.33	V
16172.50	-47.39	11.76	13.67	-50.48	-40.00	10.48	H

CA 12A_66A, CH23035+132022, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3441.00	-59.32	5.41	8.06	-56.67	-13.00	43.67	V
5117.00	-58.25	6.82	10.06	-55.01	-13.00	42.01	V
6875.50	-56.33	7.79	11.45	-52.67	-13.00	39.67	V
8515.50	-53.60	8.64	13.00	-49.24	-13.00	36.24	H
10317.50	-50.95	9.67	13.03	-47.59	-13.00	34.59	H
11941.50	-48.59	10.32	13.01	-45.90	-13.00	32.90	V

CA 12A_66A, CH23095+132322, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3508.50	-55.10	5.54	8.21	-52.43	-13.00	39.43	V
5222.50	-53.29	7.00	10.21	-50.08	-13.00	37.08	V
7001.00	-48.96	8.30	11.60	-45.66	-13.00	32.66	V
8700.50	-49.42	8.36	13.04	-44.74	-13.00	31.74	H
10458.50	-44.95	9.71	13.08	-41.58	-13.00	28.58	H
12175.00	-43.79	10.13	13.07	-40.85	-13.00	27.85	V

CA 12A_66A, CH23155+132622, QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3613.00	-59.24	6.47	8.36	-57.35	-13.00	44.35	V
5335.50	-57.68	6.97	10.37	-54.28	-13.00	41.28	H
7069.50	-55.30	8.20	11.68	-51.82	-13.00	38.82	H
8878.50	-52.59	8.81	13.08	-48.32	-13.00	35.32	H
10665.00	-51.71	9.30	13.13	-47.88	-13.00	34.88	H
12478.50	-48.87	10.23	13.19	-45.91	-13.00	32.91	H

Note: Peak EIRP (dBm) = P_{Mea}(dBm) - Path Loss(dB) + Antenna Gain(dBi)

Note: Expanded measurement uncertainty is U = 5.62 dB, k = 2.

A.3 Frequency Stability

A.3.1 Method of Measurement

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as F_L and F_H respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C decrements from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.3.2 Measurement results

LTE Band 7, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	2500.641	2569.391		
50				-10.21	0.0040
40				-10.10	0.0040
30				-10.49	0.0041
10				-9.17	0.0036
0				1.52	0.0006
-10				-11.23	0.0044
-20				0.30	0.0001
-30				-10.29	0.0041

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	2500.641	2569.391	-0.10	0.0000
9				-1.16	0.0005

LTE Band 12, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	699.481	715.519		
50				5.14	0.0073
40				0.53	0.0007
30				4.89	0.0069
10				-1.27	0.0018
0				5.04	0.0071
-10				4.82	0.0068
-20				0.70	0.0010
-30				5.64	0.0080

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	699.481	715.519	0.63	0.0009
9				0.62	0.0009

LTE Band 13, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	777.465	786.535		
50				-1.24	0.0016
40				-0.73	0.0009
30				-2.25	0.0029
10				-1.06	0.0014
0				-0.70	0.0009
-10				-1.93	0.0025
-20				-1.34	0.0017
-30				-0.72	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	777.465	786.535	-0.23	0.0003
9				-1.54	0.0020

LTE Band 25, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	1850.833	1914.199		
50				0.40	0.0002
40				0.44	0.0002
30				0.24	0.0001
10				-0.19	0.0001
0				0.49	0.0003
-10				0.03	0.0000
-20				-0.24	0.0001
-30				-1.33	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	1850.833	1914.199	0.73	0.0004
9				-0.24	0.0001

LTE Band 26(814MHz~824MHz), 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	814.380	823.611		
50				0.23	0.0003
40				-0.26	0.0003
30				-0.97	0.0012
10				-0.07	0.0001
0				-5.52	0.0067
-10				-5.74	0.0070
-20				-0.79	0.0010
-30				-6.27	0.0077

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	814.380	823.611	0.76	0.0009
9				0.46	0.0006

LTE Band 26(824MHz~849MHz), 15MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	824.577	848.471		
50				-1.49	0.0018
40				0.41	0.0005
30				5.84	0.0070
10				0.82	0.0010
0				0.46	0.0005
-10				0.70	0.0008
-20				6.09	0.0073
-30				0.89	0.0011

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	824.577	848.471	0.16	0.0002
9				0.56	0.0007

LTE Band 30, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	2305.417	2314.599		
50				-1.24	0.0005
40				-2.83	0.0012
30				-0.94	0.0004
10				-3.03	0.0013
0				-1.83	0.0008
-10				-2.42	0.0010
-20				-2.05	0.0009
-30				-0.77	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	2305.417	2314.599	6.47	0.0028
9				-1.79	0.0008

LTE Band 41, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	2496.449	2689.487		
50				-0.57	0.0002
40				0.11	0.0000
30				-2.20	0.0008
10				-1.23	0.0005
0				0.77	0.0003
-10				1.17	0.0005
-20				1.13	0.0004
-30				1.30	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	2496.449	2689.487	0.54	0.0002
9				0.33	0.0001

LTE Band 48, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	3550.865	3699.167		
50				-0.50	0.0001
40				3.68	0.0010
30				0.21	0.0001
10				0.89	0.0002
0				1.82	0.0005
-10				-1.12	0.0003
-20				4.89	0.0013
-30				-1.89	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	3550.865	3699.167	1.03	0.0003
9				-1.06	0.0003

LTE Band 66, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	1710.801	1779.231		
50				-0.23	0.0001
40				0.13	0.0001
30				-0.74	0.0004
10				0.67	0.0004
0				0.03	0.0000
-10				0.73	0.0004
-20				-0.14	0.0001
-30				-1.20	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	1710.801	1779.231	0.46	0.0003
9				7.51	0.0043

LTE Band 71, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	663.994	697.006		
50				0.30	0.0004
40				-0.01	0.0000
30				4.86	0.0071
10				0.29	0.0004
0				0.44	0.0006
-10				0.00	0.0000
-20				-0.16	0.0002
-30				0.29	0.0004

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	663.994	697.006	4.95	0.0073
9				-0.54	0.0008

LTE CA band 5B, 10MHz+10MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	7.82	824.320	848.680		
50				-0.46	0.0005
40				-0.40	0.0005
30				-0.47	0.0006
10				0.22	0.0003
0				0.52	0.0006
-10				0.86	0.0010
-20				-0.01	0.0000
-30				1.27	0.0015

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
6.6	20	824.320	848.680	0.40	0.0005
9				-0.01	0.0000