

## APPENDIX B: POWER DENSITY SYSTEM VERIFICATION PLOTS

# Element

Date: 05/13/2022

## 30 GHz System Verification

### Device Under Test Properties

| DUT                        | Serial Number |
|----------------------------|---------------|
| 30 GHz Verification Source | 1045          |

### Exposure Conditions

| Phantom Section | Position | Test Distance [mm] | Band            | Frequency [MHz] |
|-----------------|----------|--------------------|-----------------|-----------------|
| 5G              | FRONT    | 5.55               | Validation band | 30000.00        |

### Hardware Setup

| Probe, Calibration Date      | DAE, Calibration Date     |
|------------------------------|---------------------------|
| EummWV3 - SN9364, 06/21/2021 | DAE4ip SN1638, 11/11/2021 |

### Software Setup

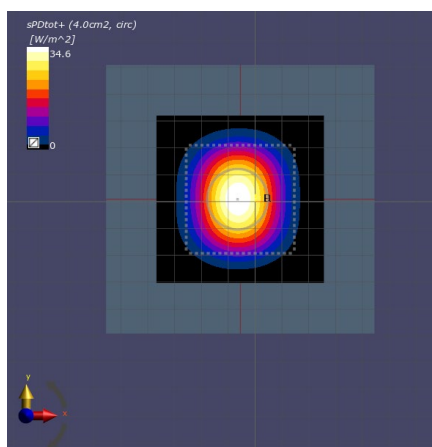
| Software             | Software Version |
|----------------------|------------------|
| cDASY6 Module mmWave | 3.0.0.841        |

### Scans Setup

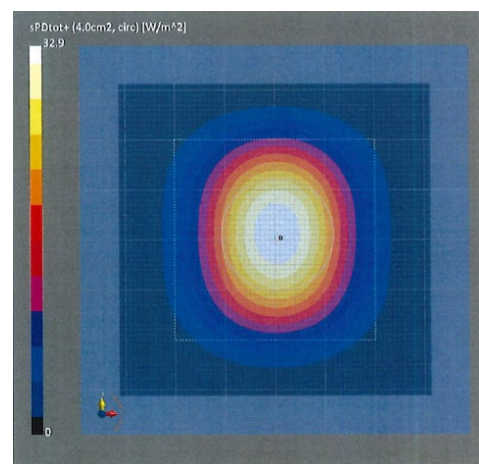
|                     |             |
|---------------------|-------------|
| Scan Type           | 5G Scan     |
| Grid Extents [mm]   | 60.0 x 60.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 5.55        |

### Measurement Results

|                                           |         |
|-------------------------------------------|---------|
| Scan Type                                 | 5G Scan |
| Avg. Area [cm <sup>2</sup> ]              | 4.00    |
| pS <sub>tot</sub> avg [W/m <sup>2</sup> ] | 34.6    |
| pS <sub>n</sub> avg [W/m <sup>2</sup> ]   | 34.2    |
| E <sub>peak</sub> [V/m]                   | 134.0   |
| Deviation (dB)                            | 0.25    |



30 GHz System Verification



Calibration Certificate

# Element

Date: 05/25/2022

## 30 GHz System Verification

### Device Under Test Properties

| DUT                        | Serial Number |
|----------------------------|---------------|
| 30 GHz Verification Source | 1035          |

### Exposure Conditions

| Phantom Section | Position | Test Distance [mm] | Band            | Frequency [MHz] |
|-----------------|----------|--------------------|-----------------|-----------------|
| 5G              | FRONT    | 5.55               | Validation band | 30000.00        |

### Hardware Setup

| Probe, Calibration Date      | DAE, Calibration Date     |
|------------------------------|---------------------------|
| EUmmWV3 - SN9407, 12/13/2021 | DAE4ip SN1639, 01/21/2022 |

### Software Setup

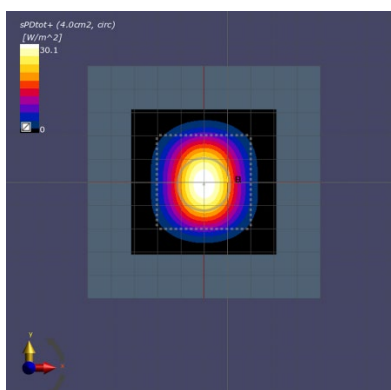
| Software             | Software Version |
|----------------------|------------------|
| cDASY6 Module mmWave | 3.0.0.841        |

### Scans Setup

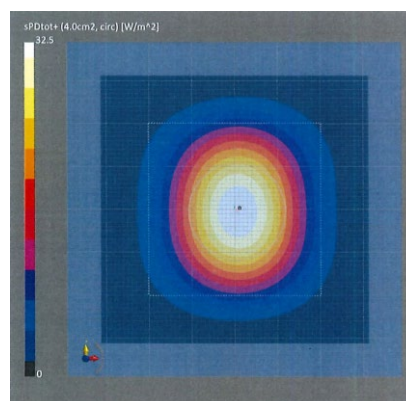
|                     |             |
|---------------------|-------------|
| Scan Type           | 5G Scan     |
| Grid Extents [mm]   | 60.0 x 60.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 5.55        |

### Measurement Results

|                                           |         |
|-------------------------------------------|---------|
| Scan Type                                 | 5G Scan |
| Avg. Area [cm <sup>2</sup> ]              | 4.00    |
| pS <sub>tot</sub> avg [W/m <sup>2</sup> ] | 30.1    |
| pS <sub>n</sub> avg [W/m <sup>2</sup> ]   | 29.7    |
| E <sub>peak</sub> [V/m]                   | 125.0   |
| Deviation (dB)                            | -0.32   |



30 GHz System Verification



Calibration Certificate