

# FCC SAR TEST REPORT

FCC ID : A4RGQML3  
Equipment : Phone  
Applicant : Google LLC  
1600 Amphitheatre Parkway,  
Mountain View, California, 94043 USA  
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Mar. 18, 2022 and testing was started from Apr. 08, 2022 and completed on Jul. 25, 2022. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan

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## History of this test report

| Report No.   | Version | Description                                                                    | Issued Date   |
|--------------|---------|--------------------------------------------------------------------------------|---------------|
| FA1O2843-05E | 01      | Initial issue of report                                                        | Jul. 17, 2022 |
| FA1O2843-05E | 02      | 1. Added WIFI6E 11a output power<br>2. Update n48 Plimit and n48/n77 test data | Jul. 27, 2022 |
|              |         |                                                                                |               |
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## 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Google LLC, Phone, are as follows.

| Equipment Class  | Frequency Band | Highest SAR Summary      |                                |                              |                                      | Highest Simultaneous Transmission<br>1g SAR (W/kg) | Highest Simultaneous Transmission<br>10g SAR (W/kg) |
|------------------|----------------|--------------------------|--------------------------------|------------------------------|--------------------------------------|----------------------------------------------------|-----------------------------------------------------|
|                  |                | Head<br>(Separation 0mm) | Body-worn<br>(Separation 10mm) | Hotspot<br>(Separation 10mm) | Product Specific<br>(Separation 0mm) |                                                    |                                                     |
|                  |                | 1g SAR (W/kg)            |                                |                              | 10g SAR (W/kg)                       |                                                    |                                                     |
| Licensed         | GSM850         | 1.04                     | 0.77                           | 0.77                         |                                      | 1.59                                               | 3.83                                                |
|                  | GSM1900        | 0.60                     | 0.97                           | 0.89                         |                                      |                                                    |                                                     |
|                  | WCDMA II       | 1.02                     | 1.14                           | 0.90                         | 2.94                                 |                                                    |                                                     |
|                  | WCDMA IV       | 0.57                     | 0.84                           | 0.90                         | 2.97                                 |                                                    |                                                     |
|                  | WCDMA V        | 1.08                     | 0.75                           | 0.75                         |                                      |                                                    |                                                     |
|                  | LTE B2         | 1.09                     | 1.12                           | 0.89                         | 2.96                                 |                                                    |                                                     |
|                  | LTE B7         | 0.68                     | 1.17                           | 0.89                         | 2.97                                 |                                                    |                                                     |
|                  | LTE B12/17     | 1.00                     | 0.43                           | 0.43                         |                                      |                                                    |                                                     |
|                  | LTE B13        | 1.05                     | 0.68                           | 0.82                         |                                      |                                                    |                                                     |
|                  | LTE B14        | 1.07                     | 0.74                           | 0.74                         |                                      |                                                    |                                                     |
|                  | LTE B25/2      | 0.84                     | 1.10                           | 0.89                         | 2.84                                 |                                                    |                                                     |
|                  | LTE B26/5      | 1.05                     | 0.61                           | 0.61                         |                                      |                                                    |                                                     |
|                  | LTE B30        | 0.60                     | 1.04                           | 0.88                         | 2.91                                 |                                                    |                                                     |
|                  | LTE B41/38     | 0.39                     | 1.12                           | 0.89                         | 1.45                                 |                                                    |                                                     |
|                  | LTE B48        | 0.25                     | 1.15                           | 0.82                         |                                      |                                                    |                                                     |
|                  | LTE B66/4      | 1.15                     | 1.07                           | 0.89                         | 2.93                                 |                                                    |                                                     |
|                  | LTE B71        | 1.18                     | 0.34                           | 0.44                         |                                      |                                                    |                                                     |
|                  | FR1 n2         | 1.16                     | 1.13                           | 0.87                         | 2.97                                 |                                                    |                                                     |
|                  | FR1 n5         | 1.18                     | 0.54                           | 0.55                         |                                      |                                                    |                                                     |
|                  | FR1 n7         | 0.60                     | 1.07                           | 0.89                         | 2.94                                 |                                                    |                                                     |
|                  | FR1 n12        | 1.19                     | 0.44                           | 0.44                         |                                      |                                                    |                                                     |
|                  | FR1 n14        | 1.03                     | 0.61                           | 0.61                         |                                      |                                                    |                                                     |
|                  | FR1 n25/2      | 1.03                     | 0.92                           | 0.86                         |                                      |                                                    |                                                     |
|                  | FR1 n30        | 0.67                     | 1.04                           | 0.83                         | 2.76                                 |                                                    |                                                     |
|                  | FR1 n41/38     | 1.17                     | 1.14                           | 0.89                         | 1.96                                 |                                                    |                                                     |
|                  | FR1 n48        | 1.15                     | 1.15                           | 0.90                         |                                      |                                                    |                                                     |
|                  | FR1 n66        | 1.17                     | 0.97                           | 0.87                         | 2.94                                 |                                                    |                                                     |
|                  | FR1 n71        | 1.15                     | 0.34                           | 0.41                         |                                      |                                                    |                                                     |
| FR1 n77          | 1.15           | 0.95                     | 0.84                           |                              |                                      |                                                    |                                                     |
| DTS              | 2.4GHz WLAN    | 1.15                     | 0.74                           | 0.70                         |                                      | 1.59                                               |                                                     |
| NII              | 5GHz WLAN      | 1.17                     | 0.70                           | 0.62                         | 2.66                                 | 1.56                                               | 3.83                                                |
| 6XD              | 6GHz WLAN      | 0.74                     | 0.13                           |                              | 0.46                                 |                                                    |                                                     |
| DSS              | Bluetooth      | 0.25                     | 0.39                           | 0.45                         |                                      | 1.48                                               |                                                     |
|                  |                |                          |                                |                              |                                      |                                                    |                                                     |
| Equipment Class  | Frequency Band | Head                     | Body                           | Product Specific             |                                      | Reported PD<br>(W/m^2)                             |                                                     |
|                  |                | APD<br>(W/m^2)           | APD<br>(W/m^2)                 | APD<br>(W/m^2)               |                                      |                                                    |                                                     |
| 6XD              | 6GHz WLAN      | 3.62                     | 0.78                           | 8.71                         |                                      | 7.16                                               |                                                     |
| Date of Testing: |                | 2022/4/8 ~ 2022/7/25     |                                |                              |                                      |                                                    |                                                     |

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093), Human Exposure to RF Radiation Limits (1.0 mW/cm<sup>2</sup>=10 W/m<sup>2</sup>) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

**Reviewed by: Jason Wang**  
**Report Producer: Paula Chen**



## 2. Equipment Under Test (EUT) Information

### 2.1 General Information

| Product Feature & Specification         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment Name                          | Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| FCC ID                                  | A4RGQML3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SN                                      | 23121FDH200032<br>23121FDH20001F<br>23121FDH20004T<br>23121FDH20000Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wireless Technology and Frequency Range | GSM850: 824.2 MHz ~ 848.8 MHz<br>GSM1900: 1850.2 MHz ~ 1909.8 MHz<br>WCDMA Band II: 1850 MHz ~ 1910 MHz<br>WCDMA Band IV: 1710 MHz ~ 1755 MHz<br>WCDMA Band V: 824 MHz ~ 849 MHz<br>LTE Band 2: 1850 MHz ~ 1910 MHz<br>LTE Band 4: 1710 MHz ~ 1755 MHz<br>LTE Band 5: 824 MHz ~ 849 MHz<br>LTE Band 7: 2500 MHz ~ 2570 MHz<br>LTE Band 12: 699 MHz ~ 716 MHz<br>LTE Band 13: 777 MHz ~ 787 MHz<br>LTE Band 14: 788 MHz ~ 798 MHz<br>LTE Band 17: 704 MHz ~ 716 MHz<br>LTE Band 25: 1850 MHz ~ 1915 MHz<br>LTE Band 26: 814 MHz ~ 849 MHz<br>LTE Band 30: 2305 MHz ~ 2315 MHz<br>LTE Band 38: 2570 MHz ~ 2620 MHz<br>LTE Band 41: 2496 MHz ~ 2690 MHz<br>LTE Band 48: 3550 MHz ~ 3700 MHz<br>LTE Band 66: 1710 MHz ~ 1780 MHz<br>LTE Band 71: 663 MHz ~ 698 MHz<br>5G NR n2 : 1850 MHz ~ 1910 MHz<br>5G NR n5 : 824 MHz ~ 849 MHz<br>5G NR n7 : 2500 MHz ~ 2570 MHz<br>5G NR n12 : 699 MHz ~ 716 MHz<br>5G NR n14 : 788 MHz ~ 798 MHz<br>5G NR n25 : 1850 MHz ~ 1915 MHz<br>5G NR n30 : 2305 MHz ~ 2315 MHz<br>5G NR n38 : 2570 MHz ~ 2620 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz<br>5G NR n48 : 3550 MHz ~ 3700 MHz<br>5G NR n66 : 1710 MHz ~ 1780 MHz<br>5G NR n71 : 663 MHz ~ 698 MHz<br>5G NR n77: 3450MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz<br>5G NR n260 : 37 GHz ~ 40 GHz<br>5G NR n261 : 27.5 GHz ~ 28.35 GHz<br>WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz<br>WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz<br>WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz<br>WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz<br>WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz<br>WLAN 5.8G UNII4 Band: 5850 MHz ~ 5895 MHz<br>WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz<br>Bluetooth: 2400 MHz ~ 2483.5 MHz<br>NFC : 13.56 MHz<br>WPT: 110KHz ~ 148.5KHz |
| Mode                                    | GSM/GPRS/EGPRS<br>RMC/AMR 12.2Kbps<br>HSDPA<br>HSUPA<br>LTE: QPSK, 16QAM, 64QAM, 256QAM<br>5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM<br>WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160<br>Bluetooth BR/EDR/LE<br>NFC: ASK<br>WPT: ASK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| GSM / (E)GPRS Transfer mode             | Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Remark:**

1. Dynamic antenna tuning mechanism is available at Ant. 0, 1 and 2 and for its < 3GHz band, details are illustrated in the operational description
2. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
3. The device implements the power management and sensor detection for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the TAS feature will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description.
4. This device has NFC operations, the NFC antenna is integrated into the device for this model, therefore, all SAR test were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the antenna can be found in the operational description.
5. According to FCC KDB publication 447498 D01v06, transmitters are consider to be operating simultaneously when there is overlapping transmission, with the exception of transmission during network hand-offs with maximum hand-off duration less than 30 seconds.

## **2.2 Maximum Tune-up Limit**

**General Note:**

1. In the report PC3 as power class3, PC2 as power class2, PC1.5 as Power class 1.5.
2. For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition.
3. The device implements the power management and sensor detection for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) by output power index and the TAS feature will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description.
4. The following table shows maximum output power configurations for various exposure conditions (output power index) with tune-up tolerance accounted. For TAS enabled bands, the values associate with Plimit plus the total uncertainty, or Pmax plus total uncertainty when the derived Plimit is higher than Pmax. In some frequency bands, for some power indexes which associate with the same power level, conducted power measurement for those only need to perform at once.
5. The index 1 is for the mobile exposure condition, the compliance is demonstrated in Sporton's test report FA102919-05A.
6. SAR compliance for the scenario, when device in next-to-ear voice call with hotspot enabled, is justified via head SAR test at Power Index 3.
7. In n41 PC1.5, the device only supports UL MIMO mode.
8. When the Uplink MIMO is active that per chain power is equal than standalone power back off 3dB.
9. The device support uplink MIMO for 5G FR1 n41/48/77, the TAS feature will control the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit, the uplink MIMO compliance is validated include in the TAS Part2 report No.: FA102843-05F.
10. Since the device the device support TAS feature and the 5G NR transmitter will operate in the time-averaged transmission power, therefore, for 5G NR PC3 / PC2 / PC1.5 regardless of whether support different transmission duty cycle, the 5G NR SAR was performed with PC3 as highest time-average power and 100% duty cycle to be tested
11. The 5G FR1 uplink MIMO only support CP-OFDM modulation. Since the CP-OFDM mode maximum power is lower than DFT-s-OFDM maximum power by 3GPP MPR requirement, uplink MIMO SAR testing was not necessary due to cover by DFT-s-OFDM SAR results. Except n48 PC3 Sub Tx0 Ant1 and Sub Tx1 Ant5, due to these transmit antenna only support uplink MIMO operation, therefore, additional standalone SAR is required.



| Maximum Transmit Burst Average Power (dBm) |         |            |                  |            |              |              |                     |                     |
|--------------------------------------------|---------|------------|------------------|------------|--------------|--------------|---------------------|---------------------|
| Band                                       | Antenna | Duty cycle | Mobile Condition | Head       | Head         | Hotspot      | Body-worn-Extremity | Body-worn-Extremity |
|                                            |         |            | Index 1          | Standalone | Simultaneous | Simultaneous | Standalone          | Simultaneous        |
|                                            |         |            |                  | Index 2    | Index 3      | Index 4      | Index 5             | Index 6             |
| GSM850 GSM/GPRS 1TX                        | 0       | 12.50%     | 33.50            | 33.50      | 33.50        | 33.50        | 33.50               | 33.50               |
| GSM850 GPRS 2TX                            | 0       | 25.00%     | 32.50            | 32.50      | 32.50        | 32.50        | 32.50               | 32.50               |
| GSM850 GPRS 3TX                            | 0       | 37.50%     | 31.50            | 31.50      | 31.50        | 31.50        | 31.50               | 31.50               |
| GSM850 GPRS 4TX                            | 0       | 50.00%     | 30.50            | 30.50      | 30.50        | 30.50        | 30.50               | 30.50               |
| GSM850 EDGE 1TX                            | 0       | 12.50%     | 28.00            | 28.00      | 28.00        | 28.00        | 28.00               | 28.00               |
| GSM850 EDGE 2TX                            | 0       | 25.00%     | 27.50            | 27.50      | 27.50        | 27.50        | 27.50               | 27.50               |
| GSM850 EDGE 3TX                            | 0       | 37.50%     | 27.50            | 27.50      | 27.50        | 27.50        | 27.50               | 27.50               |
| GSM850 EDGE 4TX                            | 0       | 50.00%     | 25.50            | 25.50      | 25.50        | 25.50        | 25.50               | 25.50               |
| GSM1900 GSM/GPRS 1TX                       | 2       | 12.50%     | 31.00            | 31.00      | 31.00        | 31.00        | 31.00               | 31.00               |
| GSM1900 GPRS 2TX                           | 2       | 25.00%     | 29.50            | 29.50      | 29.50        | 29.50        | 29.50               | 29.50               |
| GSM1900 GPRS 3TX                           | 2       | 37.50%     | 29.00            | 29.00      | 29.00        | 28.60        | 29.00               | 28.80               |
| GSM1900 GPRS 4TX                           | 2       | 50.00%     | 28.00            | 28.00      | 28.00        | 27.40        | 28.00               | 27.60               |
| GSM1900 EDGE 1TX                           | 2       | 12.50%     | 26.00            | 26.00      | 26.00        | 26.00        | 26.00               | 26.00               |
| GSM1900 EDGE 2TX                           | 2       | 25.00%     | 25.00            | 25.00      | 25.00        | 25.00        | 25.00               | 25.00               |
| GSM1900 EDGE 3TX                           | 2       | 37.50%     | 25.00            | 25.00      | 25.00        | 25.00        | 25.00               | 25.00               |
| GSM1900 EDGE 4TX                           | 2       | 50.00%     | 24.00            | 24.00      | 24.00        | 24.00        | 24.00               | 24.00               |
| WCDMA B2                                   | 2       | 100.00%    | 25.40            | 25.40      | 24.80        | 22.60        | 24.20               | 23.00               |
| WCDMA B4                                   | 2       | 100.00%    | 25.40            | 25.40      | 25.40        | 23.00        | 24.20               | 23.00               |
| WCDMA B5                                   | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| LTE B7                                     | 2       | 100.00%    | 25.40            | 25.40      | 25.40        | 22.00        | 23.40               | 22.20               |
| LTE B12/B17                                | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| LTE B13                                    | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| LTE B14                                    | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| LTE B25/B2                                 | 2       | 100.00%    | 25.40            | 25.40      | 25.40        | 23.40        | 24.60               | 23.40               |
| LTE B26/B5                                 | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| LTE B30                                    | 2       | 100.00%    | 24.30            | 24.30      | 24.30        | 22.10        | 23.40               | 22.20               |
| LTE-B38 PC3                                | 2       | 63.30%     | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| LTE-B38 PC2                                | 2       | 43.30%     | 26.90            | 26.90      | 26.90        | 26.90        | 26.90               | 26.90               |
| LTE B41 PC3                                | 2       | 63.30%     | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| LTE B41 PC2                                | 2       | 43.30%     | 26.90            | 26.90      | 26.90        | 26.90        | 26.90               | 26.90               |
| LTE B48 PC3                                | 6       | 63.30%     | 25.40            | 25.40      | 25.40        | 24.30        | 25.40               | 24.30               |
| LTE B66/B4                                 | 2       | 100.00%    | 25.40            | 25.40      | 25.40        | 23.30        | 24.80               | 23.60               |
| LTE B71                                    | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| FR1 n5                                     | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| FR1 n7                                     | 2       | 100.00%    | 25.40            | 25.40      | 25.40        | 21.60        | 24.20               | 23.00               |
| FR1 n12                                    | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| FR1 n14                                    | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| FR1 n25/n2                                 | 2       | 100.00%    | 25.40            | 25.40      | 24.80        | 23.30        | 24.50               | 23.30               |
| FR1 n30                                    | 2       | 100.00%    | 24.30            | 24.30      | 24.30        | 22.00        | 23.20               | 22.00               |
| FR1 n38 PC3                                | 2       | 100.00%    | 25.40            | 25.40      | 25.40        | 22.70        | 24.40               | 23.20               |
| FR1 n41 PC3                                | 2       | 100.00%    | 25.40            | 25.40      | 25.40        | 22.70        | 24.40               | 23.20               |
| FR1 n41 PC2                                | 2       | 50.00%     | 26.90            | 26.90      | 26.90        | 25.70        | 26.90               | 26.20               |
| FR1 n41 PC1.5 ULMIMO                       | 2       | 25.00%     | 25.90            | 25.90      | 25.90        | 25.90        | 25.90               | 25.90               |
| FR1 n48 PC3                                | 6       | 100.00%    | 25.40            | 25.40      | 25.40        | 22.70        | 23.90               | 22.70               |
| FR1 n66                                    | 2       | 100.00%    | 25.40            | 25.40      | 25.40        | 23.30        | 24.50               | 23.30               |
| FR1 n71                                    | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 25.40        | 25.40               | 25.40               |
| FR1 n77 PC3                                | 6       | 100.00%    | 24.10            | 24.10      | 24.10        | 22.90        | 24.10               | 22.90               |
| FR1 n77 PC2                                | 6       | 50.00%     | 27.10            | 27.10      | 27.10        | 25.90        | 27.10               | 25.90               |
| LTE B2 Sub                                 | 1       | 100.00%    | 25.40            | 16.00      | 14.80        | 19.90        | 22.40               | 21.20               |
| LTE B66/B4 Sub                             | 1       | 100.00%    | 25.40            | 18.00      | 16.80        | 23.20        | 24.60               | 23.40               |
| FR1 n2 Sub                                 | 1       | 100.00%    | 25.40            | 17.00      | 15.80        | 20.40        | 23.00               | 21.80               |
| FR1 n38 PC3 Sub                            | 1       | 100.00%    | 25.40            | 19.00      | 17.80        | 23.00        | 24.20               | 23.00               |
| FR1 n41 PC3 Sub                            | 1       | 100.00%    | 25.40            | 19.00      | 17.80        | 23.00        | 24.20               | 23.00               |
| FR1 n41 PC2 Sub                            | 1       | 50.00%     | 26.90            | 22.00      | 20.80        | 26.00        | 26.90               | 26.00               |
| FR1 n41 PC1.5 Sub ULMIMO                   | 1       | 25.00%     | 25.90            | 25.00      | 23.80        | 25.90        | 25.90               | 25.90               |
| FR1 n48 PC3 Sub ULMIMO                     | 1       | 100.00%    | 20.50            | 20.50      | 19.30        | 20.50        | 20.50               | 20.50               |
| FR1 n66 Sub                                | 1       | 100.00%    | 25.40            | 18.80      | 17.60        | 23.60        | 25.10               | 23.90               |
| FR1 n77 Sub                                | 1       | 100.00%    | 25.40            | 20.70      | 19.50        | 25.40        | 25.40               | 25.40               |



| Maximum Transmit Burst Average Power (dBm) |         |            |                  |            |              |              |                     |                     |
|--------------------------------------------|---------|------------|------------------|------------|--------------|--------------|---------------------|---------------------|
| Band                                       | Antenna | Duty cycle | Mobile Condition | Head       | Head         | Hotspot      | Body-worn-Extremity | Body-worn-Extremity |
|                                            |         |            | Index 1          | Standalone | Simultaneous | Simultaneous | Standalone          | Simultaneous        |
|                                            |         |            |                  | Index 2    | Index 3      | Index 4      | Index 5             | Index 6             |
| GSM850 GSM/GPRS 1TX                        | 1       | 12.50%     | 33.50            | 33.30      | 32.10        | 33.50        | 33.50               | 33.50               |
| GSM850 GPRS 2TX                            | 1       | 25.00%     | 32.50            | 30.30      | 29.10        | 32.50        | 32.50               | 32.50               |
| GSM850 GPRS 3TX                            | 1       | 37.50%     | 31.50            | 28.50      | 27.30        | 31.50        | 31.50               | 31.50               |
| GSM850 GPRS 4TX                            | 1       | 50.00%     | 30.50            | 27.30      | 26.10        | 30.50        | 30.50               | 30.50               |
| GSM850 EDGE 1TX                            | 1       | 12.50%     | 28.00            | 28.00      | 28.00        | 28.00        | 28.00               | 28.00               |
| GSM850 EDGE 2TX                            | 1       | 25.00%     | 27.50            | 27.50      | 27.50        | 27.50        | 27.50               | 27.50               |
| GSM850 EDGE 3TX                            | 1       | 37.50%     | 27.50            | 27.50      | 27.30        | 27.50        | 27.50               | 27.50               |
| GSM850 EDGE 4TX                            | 1       | 50.00%     | 25.50            | 25.50      | 25.50        | 25.50        | 25.50               | 25.50               |
| GSM1900 GSM/GPRS 1TX                       | 0       | 12.50%     | 30.80            | 30.80      | 30.80        | 29.00        | 30.20               | 29.00               |
| GSM1900 GPRS 2TX                           | 0       | 25.00%     | 29.30            | 29.30      | 29.30        | 26.00        | 27.20               | 26.00               |
| GSM1900 GPRS 3TX                           | 0       | 37.50%     | 28.80            | 28.80      | 28.80        | 24.20        | 25.40               | 24.20               |
| GSM1900 GPRS 4TX                           | 0       | 50.00%     | 27.80            | 27.80      | 27.80        | 23.00        | 24.20               | 23.00               |
| GSM1900 EDGE 1TX                           | 0       | 12.50%     | 25.80            | 25.80      | 25.80        | 25.80        | 25.80               | 25.80               |
| GSM1900 EDGE 2TX                           | 0       | 25.00%     | 24.80            | 24.80      | 24.80        | 24.80        | 24.80               | 24.80               |
| GSM1900 EDGE 3TX                           | 0       | 37.50%     | 24.80            | 24.80      | 24.80        | 24.20        | 24.80               | 24.20               |
| GSM1900 EDGE 4TX                           | 0       | 50.00%     | 23.80            | 23.80      | 23.80        | 23.00        | 23.80               | 23.00               |
| WCDMA B2                                   | 0       | 100.00%    | 25.20            | 25.20      | 25.20        | 18.00        | 20.00               | 18.80               |
| WCDMA B4                                   | 0       | 100.00%    | 25.20            | 25.20      | 25.20        | 18.30        | 20.40               | 19.20               |
| WCDMA B5                                   | 1       | 100.00%    | 25.40            | 23.30      | 22.10        | 25.40        | 25.40               | 25.40               |
| LTE B7                                     | 0       | 100.00%    | 25.00            | 25.00      | 25.00        | 18.30        | 21.80               | 20.60               |
| LTE B12/B17                                | 1       | 100.00%    | 25.40            | 23.90      | 22.70        | 25.40        | 25.40               | 25.40               |
| LTE B13                                    | 1       | 100.00%    | 25.40            | 23.30      | 22.10        | 25.40        | 25.40               | 25.40               |
| LTE B14                                    | 1       | 100.00%    | 25.40            | 23.40      | 22.20        | 25.40        | 25.40               | 25.40               |
| LTE B25/B2                                 | 0       | 100.00%    | 25.20            | 25.20      | 25.20        | 18.80        | 20.20               | 19.00               |
| LTE B26/B5                                 | 1       | 100.00%    | 25.40            | 23.90      | 22.70        | 25.40        | 25.40               | 25.40               |
| LTE B30                                    | 0       | 100.00%    | 24.50            | 24.50      | 24.50        | 18.00        | 21.20               | 20.00               |
| LTE-B38 PC3                                | 0       | 63.30%     | 25.40            | 25.40      | 25.40        | 20.70        | 24.20               | 23.00               |
| LTE-B38 PC2                                | 0       | 43.30%     | 26.90            | 26.90      | 26.90        | 22.30        | 25.80               | 24.60               |
| LTE B41 PC3                                | 0       | 63.30%     | 25.40            | 25.40      | 25.40        | 20.70        | 24.20               | 23.00               |
| LTE B41 PC2                                | 0       | 43.30%     | 26.90            | 26.90      | 26.90        | 22.30        | 25.80               | 24.60               |
| LTE B48 PC3                                | 7       | 63.30%     | 24.80            | 24.80      | 24.80        | 24.80        | 24.80               | 24.80               |
| LTE B66/B4                                 | 0       | 100.00%    | 25.20            | 25.20      | 25.20        | 17.30        | 20.80               | 19.60               |
| LTE B71                                    | 1       | 100.00%    | 25.40            | 24.40      | 23.20        | 25.40        | 25.40               | 25.40               |
| FR1 n5                                     | 1       | 100.00%    | 25.40            | 24.30      | 23.10        | 25.40        | 25.40               | 25.40               |
| FR1 n7                                     | 0       | 100.00%    | 25.00            | 25.00      | 25.00        | 17.70        | 21.20               | 20.00               |
| FR1 n12                                    | 1       | 100.00%    | 25.40            | 24.30      | 23.10        | 25.40        | 25.40               | 25.40               |
| FR1 n14                                    | 1       | 100.00%    | 25.40            | 23.70      | 22.50        | 25.40        | 25.40               | 25.40               |
| FR1 n25/n2                                 | 0       | 100.00%    | 25.20            | 25.20      | 25.20        | 18.90        | 20.30               | 19.10               |
| FR1 n30                                    | 0       | 100.00%    | 24.50            | 24.50      | 24.50        | 17.80        | 21.50               | 20.30               |
| FR1 n38 PC3                                | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 19.00        | 22.90               | 21.70               |
| FR1 n41 PC3                                | 0       | 100.00%    | 25.40            | 25.40      | 25.40        | 19.00        | 22.90               | 21.70               |
| FR1 n41 PC2                                | 0       | 50.00%     | 26.90            | 26.90      | 26.90        | 22.00        | 25.90               | 24.70               |
| FR1 n41 PC1.5 ULMIMO                       | 0       | 25.00%     | 25.90            | 25.90      | 25.90        | 25.00        | 25.90               | 25.90               |
| FR1 n48 PC3                                | 7       | 100.00%    | 24.80            | 24.80      | 24.80        | 21.00        | 22.20               | 21.00               |
| FR1 n66                                    | 0       | 100.00%    | 25.20            | 25.20      | 25.20        | 18.00        | 20.70               | 19.50               |
| FR1 n71                                    | 1       | 100.00%    | 25.40            | 24.10      | 22.90        | 25.40        | 25.40               | 25.40               |
| FR1 n77 PC3                                | 7       | 100.00%    | 23.50            | 23.50      | 23.50        | 23.50        | 23.50               | 23.50               |
| FR1 n77 PC2                                | 7       | 50.00%     | 26.50            | 26.50      | 26.50        | 26.50        | 26.50               | 26.50               |
| LTE B2 Sub                                 | 5       | 100.00%    | 25.20            | 21.90      | 20.70        | 23.00        | 25.20               | 25.20               |
| LTE B66/B4 Sub                             | 5       | 100.00%    | 25.20            | 24.70      | 23.50        | 25.20        | 25.20               | 25.20               |
| FR1 n2 Sub                                 | 5       | 100.00%    | 25.20            | 22.30      | 21.10        | 23.80        | 25.20               | 25.20               |
| FR1 n38 PC3 Sub                            | 5       | 100.00%    | 24.40            | 21.80      | 20.60        | 22.30        | 23.50               | 22.30               |
| FR1 n41 PC3 Sub                            | 5       | 100.00%    | 24.40            | 21.80      | 20.60        | 22.30        | 23.50               | 22.30               |
| FR1 n41 PC2 Sub                            | 5       | 50.00%     | 25.90            | 24.80      | 23.60        | 25.30        | 25.90               | 25.30               |
| FR1 n41 PC1.5 Sub ULMIMO                   | 5       | 25.00%     | 25.90            | 25.90      | 25.90        | 25.90        | 25.90               | 25.90               |
| FR1 n48 PC3 Sub ULMIMO                     | 5       | 100.00%    | 19.20            | 19.20      | 19.20        | 19.20        | 19.20               | 19.20               |
| FR1 n66 Sub                                | 5       | 100.00%    | 25.20            | 24.60      | 23.40        | 25.20        | 25.20               | 25.20               |
| FR1 n77 Sub                                | 5       | 100.00%    | 24.80            | 21.70      | 20.50        | 23.40        | 24.80               | 24.80               |

**<WLAN Maximum Power>**
**General Note:**

1. The device implements the power management for WLAN SAR compliance for different exposure conditions and user cases. When the device is operated against the user's head, power index 1-4 are used; when the device is operated in the body-worn / hotspot / extremity condition, power index 5-9 are used. In each exposure condition, the power selection is determined by the user cases as tested in Section 15 of this report. Full details about the proprietary power management decision are illustrated in the operational description.
2. 4+3(4): power level on antenna 4, when device operated in MIMO mode (4+3)

**<Mobile Condition – Power index 0 >**
**<2.4GHz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 23.00         |
|                           |               | 6       | 2437            | 23.00         |
|                           |               | 11      | 2462            | 23.00         |
|                           |               | 12      | 2467            | 23.00         |
|                           |               | 13      | 2472            | 23.00         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 22.00         |
|                           |               | 6       | 2437            | 23.00         |
|                           |               | 11      | 2462            | 23.00         |
|                           |               | 12      | 2467            | 23.00         |
|                           |               | 13      | 2472            | 21.00         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.2GHz WLAN               | 802.11a 6Mbps       | 36      | 5180            | 21.00         | 21.00         | 24.00         |
|                           |                     | 40      | 5200            | 21.00         | 21.00         | 24.00         |
|                           |                     | 44      | 5220            | 21.00         | 21.00         | 24.00         |
|                           |                     | 48      | 5240            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 19.00         | 19.00         | 22.00         |
|                           |                     | 40      | 5200            | 21.00         | 21.00         | 24.00         |
|                           |                     | 44      | 5220            | 21.00         | 21.00         | 24.00         |
|                           |                     | 48      | 5240            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 19.00         | 19.00         | 22.00         |
|                           |                     | 40      | 5200            | 21.00         | 21.00         | 24.00         |
|                           |                     | 44      | 5220            | 21.00         | 21.00         | 24.00         |
|                           |                     | 48      | 5240            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 19.00         | 19.00         | 22.00         |
|                           |                     | 40      | 5200            | 21.00         | 21.00         | 24.00         |
|                           |                     | 44      | 5220            | 21.00         | 21.00         | 24.00         |
|                           |                     | 48      | 5240            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 16.50         | 16.50         | 19.50         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.3GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 52      | 5260            | 21.00         | 21.00         | 24.00         |
|                           |                      | 56      | 5280            | 21.00         | 21.00         | 24.00         |
|                           |                      | 60      | 5300            | 21.00         | 21.00         | 24.00         |
|                           |                      | 64      | 5320            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 21.00         | 21.00         | 24.00         |
|                           |                      | 56      | 5280            | 21.00         | 21.00         | 24.00         |
|                           |                      | 60      | 5300            | 21.00         | 21.00         | 24.00         |
|                           |                      | 64      | 5320            | 19.00         | 19.00         | 22.00         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 21.00         | 21.00         | 24.00         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 21.00         | 21.00         | 24.00         |
|                           |                      | 56      | 5280            | 21.00         | 21.00         | 24.00         |
|                           |                      | 60      | 5300            | 21.00         | 21.00         | 24.00         |
|                           |                      | 64      | 5320            | 19.00         | 19.00         | 22.00         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 21.00         | 21.00         | 24.00         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 21.00         | 21.00         | 24.00         |
|                           |                      | 56      | 5280            | 21.00         | 21.00         | 24.00         |
|                           |                      | 60      | 5300            | 21.00         | 21.00         | 24.00         |
|                           |                      | 64      | 5320            | 19.00         | 19.00         | 22.00         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 21.00         | 21.00         | 24.00         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 15            | 15            | 18.00         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.5GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 100     | 5500            | 21.00         | 21.00         | 24.00         |
|                           |                      | 116     | 5580            | 21.00         | 21.00         | 24.00         |
|                           |                      | 124     | 5620            | 21.00         | 21.00         | 24.00         |
|                           |                      | 132     | 5660            | 21.00         | 21.00         | 24.00         |
|                           |                      | 144     | 5720            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 19.00         | 19.00         | 22.00         |
|                           |                      | 116     | 5580            | 21.00         | 21.00         | 24.00         |
|                           |                      | 124     | 5620            | 21.00         | 21.00         | 24.00         |
|                           |                      | 132     | 5660            | 21.00         | 21.00         | 24.00         |
|                           |                      | 144     | 5720            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 21.00         | 21.00         | 24.00         |
|                           |                      | 126     | 5630            | 21.00         | 21.00         | 24.00         |
|                           |                      | 134     | 5670            | 19.00         | 19.00         | 22.00         |
|                           |                      | 142     | 5710            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 19.00         | 19.00         | 22.00         |
|                           |                      | 116     | 5580            | 21.00         | 21.00         | 24.00         |
|                           |                      | 124     | 5620            | 21.00         | 21.00         | 24.00         |
|                           |                      | 132     | 5660            | 21.00         | 21.00         | 24.00         |
|                           |                      | 144     | 5720            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 21.00         | 21.00         | 24.00         |
|                           |                      | 126     | 5630            | 21.00         | 21.00         | 24.00         |
|                           |                      | 134     | 5670            | 19.00         | 19.00         | 22.00         |
|                           |                      | 142     | 5710            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 21.00         | 21.00         | 24.00         |
|                           |                      | 138     | 5690            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 15.50         | 15.50         | 18.50         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 19.00         | 19.00         | 22.00         |
|                           |                      | 116     | 5580            | 21.00         | 21.00         | 24.00         |
|                           |                      | 124     | 5620            | 21.00         | 21.00         | 24.00         |
|                           |                      | 132     | 5660            | 21.00         | 21.00         | 24.00         |
|                           |                      | 144     | 5720            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 21.00         | 21.00         | 24.00         |
|                           |                      | 126     | 5630            | 21.00         | 21.00         | 24.00         |
|                           |                      | 134     | 5670            | 19.00         | 19.00         | 22.00         |
|                           |                      | 142     | 5710            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 21.00         | 21.00         | 24.00         |
|                           |                      | 138     | 5690            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 15.50         | 15.50         | 18.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 22.00         | 22.00         | 25.00         |
|                           |                     | 157     | 5785            | 22.00         | 22.00         | 25.00         |
|                           |                     | 165     | 5825            | 22.00         | 22.00         | 25.00         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 22.00         | 22.00         | 25.00         |
|                           |                     | 157     | 5785            | 22.00         | 22.00         | 25.00         |
|                           |                     | 165     | 5825            | 22.00         | 22.00         | 25.00         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 22.00         | 22.00         | 25.00         |
|                           |                     | 159     | 5795            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 22.00         | 22.00         | 25.00         |
|                           |                     | 157     | 5785            | 22.00         | 22.00         | 25.00         |
|                           |                     | 165     | 5825            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 22.00         | 22.00         | 25.00         |
|                           |                     | 159     | 5795            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 22.00         | 22.00         | 25.00         |
|                           |                     | 157     | 5785            | 22.00         | 22.00         | 25.00         |
|                           |                     | 165     | 5825            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 22.00         | 22.00         | 25.00         |
|                           |                     | 159     | 5795            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 22.00         | 22.00         | 25.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN<br>UNII4      | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 22.00         | 22.00         | 25.00         |
|                           |                      | 173     | 5865            | 22.00         | 22.00         | 25.00         |
|                           |                      | 177     | 5885            | 22.00         | 22.00         | 25.00         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 22.00         | 22.00         | 25.00         |
|                           |                      | 173     | 5865            | 22.00         | 22.00         | 25.00         |
|                           |                      | 177     | 5885            | 22.00         | 22.00         | 25.00         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 22.00         | 22.00         | 25.00         |
|                           |                      | 175     | 5875            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 22.00         | 22.00         | 25.00         |
|                           |                      | 173     | 5865            | 22.00         | 22.00         | 25.00         |
|                           |                      | 177     | 5885            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 22.00         | 22.00         | 25.00         |
|                           |                      | 175     | 5875            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 22.00         | 22.00         | 25.00         |
|                           |                      | 173     | 5865            | 22.00         | 22.00         | 25.00         |
|                           |                      | 177     | 5885            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 22.00         | 22.00         | 25.00         |
|                           |                      | 175     | 5875            | 22.00         | 22.00         | 25.00         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 20.00         | 20.00         | 23.00         |

**< Power index 1 >**
**<2.4Hz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 17.50         |
|                           |               | 6       | 2437            | 17.50         |
|                           |               | 11      | 2462            | 17.50         |
|                           |               | 12      | 2467            | 17.50         |
|                           |               | 13      | 2472            | 17.50         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 17.50         |
|                           |               | 6       | 2437            | 17.50         |
|                           |               | 11      | 2462            | 17.50         |
|                           |               | 12      | 2467            | 17.50         |
|                           |               | 13      | 2472            | 17.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 17.50         | 17.50         | 20.50         |
|                           |                     | 6       | 2437            | 17.50         | 17.50         | 20.50         |
|                           |                     | 11      | 2462            | 17.50         | 17.50         | 20.50         |
|                           |                     | 12      | 2467            | 17.50         | 17.50         | 20.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 17.50         | 17.50         | 20.50         |
|                           |                     | 6       | 2437            | 17.50         | 17.50         | 20.50         |
|                           |                     | 11      | 2462            | 17.50         | 17.50         | 20.50         |
|                           |                     | 12      | 2467            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 17.50         | 17.50         | 20.50         |
|                           |                     | 6       | 2437            | 17.50         | 17.50         | 20.50         |
|                           |                     | 11      | 2462            | 17.50         | 17.50         | 20.50         |
|                           |                     | 12      | 2467            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 17.50         | 17.50         | 20.50         |
|                           |                     | 6       | 2437            | 17.50         | 17.50         | 20.50         |
|                           |                     | 11      | 2462            | 17.50         | 17.50         | 20.50         |
|                           |                     | 12      | 2467            | 17.50         | 17.50         | 20.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.2GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 36      | 5180            | 13.50         | 13.50         | 16.50         |
|                           |                     | 40      | 5200            | 13.50         | 13.50         | 16.50         |
|                           |                     | 44      | 5220            | 13.50         | 13.50         | 16.50         |
|                           |                     | 48      | 5240            | 13.50         | 13.50         | 16.50         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 13.50         | 13.50         | 16.50         |
|                           |                     | 40      | 5200            | 13.50         | 13.50         | 16.50         |
|                           |                     | 44      | 5220            | 13.50         | 13.50         | 16.50         |
|                           |                     | 48      | 5240            | 13.50         | 13.50         | 16.50         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 13.50         | 13.50         | 16.50         |
|                           |                     | 46      | 5230            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 13.50         | 13.50         | 16.50         |
|                           |                     | 40      | 5200            | 13.50         | 13.50         | 16.50         |
|                           |                     | 44      | 5220            | 13.50         | 13.50         | 16.50         |
|                           |                     | 48      | 5240            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.50         | 13.50         | 16.50         |
|                           |                     | 46      | 5230            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 13.50         | 13.50         | 16.50         |
|                           |                     | 40      | 5200            | 13.50         | 13.50         | 16.50         |
|                           |                     | 44      | 5220            | 13.50         | 13.50         | 16.50         |
|                           |                     | 48      | 5240            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 13.50         | 13.50         | 16.50         |
|                           |                     | 46      | 5230            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 13.50         | 13.50         | 16.50         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.3GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 52      | 5260            | 13.50         | 13.50         | 16.50         |
|                           |                      | 56      | 5280            | 13.50         | 13.50         | 16.50         |
|                           |                      | 60      | 5300            | 13.50         | 13.50         | 16.50         |
|                           |                      | 64      | 5320            | 13.50         | 13.50         | 16.50         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 13.50         | 13.50         | 16.50         |
|                           |                      | 56      | 5280            | 13.50         | 13.50         | 16.50         |
|                           |                      | 60      | 5300            | 13.50         | 13.50         | 16.50         |
|                           |                      | 64      | 5320            | 13.50         | 13.50         | 16.50         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 13.50         | 13.50         | 16.50         |
|                           |                      | 62      | 5310            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 13.50         | 13.50         | 16.50         |
|                           |                      | 56      | 5280            | 13.50         | 13.50         | 16.50         |
|                           |                      | 60      | 5300            | 13.50         | 13.50         | 16.50         |
|                           |                      | 64      | 5320            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 13.50         | 13.50         | 16.50         |
|                           |                      | 62      | 5310            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 13.50         | 13.50         | 16.50         |
|                           |                      | 56      | 5280            | 13.50         | 13.50         | 16.50         |
|                           |                      | 60      | 5300            | 13.50         | 13.50         | 16.50         |
|                           |                      | 64      | 5320            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 13.50         | 13.50         | 16.50         |
|                           |                      | 62      | 5310            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 13.50         | 13.50         | 16.50         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.5GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 100     | 5500            | 15.00         | 15.00         | 18.00         |
|                           |                      | 116     | 5580            | 15.00         | 15.00         | 18.00         |
|                           |                      | 124     | 5620            | 15.00         | 15.00         | 18.00         |
|                           |                      | 132     | 5660            | 15.00         | 15.00         | 18.00         |
|                           |                      | 144     | 5720            | 15.00         | 15.00         | 18.00         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 15.00         | 15.00         | 18.00         |
|                           |                      | 116     | 5580            | 15.00         | 15.00         | 18.00         |
|                           |                      | 124     | 5620            | 15.00         | 15.00         | 18.00         |
|                           |                      | 132     | 5660            | 15.00         | 15.00         | 18.00         |
|                           |                      | 144     | 5720            | 15.00         | 15.00         | 18.00         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 15.00         | 15.00         | 18.00         |
|                           |                      | 126     | 5630            | 15.00         | 15.00         | 18.00         |
|                           |                      | 134     | 5670            | 15.00         | 15.00         | 18.00         |
|                           |                      | 142     | 5710            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 15.00         | 15.00         | 18.00         |
|                           |                      | 116     | 5580            | 15.00         | 15.00         | 18.00         |
|                           |                      | 124     | 5620            | 15.00         | 15.00         | 18.00         |
|                           |                      | 132     | 5660            | 15.00         | 15.00         | 18.00         |
|                           |                      | 144     | 5720            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 15.00         | 15.00         | 18.00         |
|                           |                      | 126     | 5630            | 15.00         | 15.00         | 18.00         |
|                           |                      | 134     | 5670            | 15.00         | 15.00         | 18.00         |
|                           |                      | 142     | 5710            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 15.00         | 15.00         | 18.00         |
|                           |                      | 122     | 5610            | 15.00         | 15.00         | 18.00         |
|                           |                      | 138     | 5690            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 15.00         | 15.00         | 18.00         |
|                           |                      | 116     | 5580            | 15.00         | 15.00         | 18.00         |
|                           |                      | 124     | 5620            | 15.00         | 15.00         | 18.00         |
|                           |                      | 132     | 5660            | 15.00         | 15.00         | 18.00         |
|                           |                      | 144     | 5720            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 15.00         | 15.00         | 18.00         |
|                           |                      | 126     | 5630            | 15.00         | 15.00         | 18.00         |
|                           |                      | 134     | 5670            | 15.00         | 15.00         | 18.00         |
|                           |                      | 142     | 5710            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 15.00         | 15.00         | 18.00         |
|                           |                      | 122     | 5610            | 15.00         | 15.00         | 18.00         |
|                           |                      | 138     | 5690            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 15.00         | 15.00         | 18.00         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 16.00         | 16.00         | 19.00         |
|                           |                     | 157     | 5785            | 16.00         | 16.00         | 19.00         |
|                           |                     | 165     | 5825            | 16.00         | 16.00         | 19.00         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 16.00         | 16.00         | 19.00         |
|                           |                     | 157     | 5785            | 16.00         | 16.00         | 19.00         |
|                           |                     | 165     | 5825            | 16.00         | 16.00         | 19.00         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 16.00         | 16.00         | 19.00         |
|                           |                     | 159     | 5795            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 16.00         | 16.00         | 19.00         |
|                           |                     | 157     | 5785            | 16.00         | 16.00         | 19.00         |
|                           |                     | 165     | 5825            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 16.00         | 16.00         | 19.00         |
|                           |                     | 159     | 5795            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 16.00         | 16.00         | 19.00         |
|                           |                     | 157     | 5785            | 16.00         | 16.00         | 19.00         |
|                           |                     | 165     | 5825            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 16.00         | 16.00         | 19.00         |
|                           |                     | 159     | 5795            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 16.00         | 16.00         | 19.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN UNII4         | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 16.50         | 16.50         | 19.50         |
|                           |                      | 173     | 5865            | 16.50         | 16.50         | 19.50         |
|                           |                      | 177     | 5885            | 16.50         | 16.50         | 19.50         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 16.50         | 16.50         | 19.50         |
|                           |                      | 173     | 5865            | 16.50         | 16.50         | 19.50         |
|                           |                      | 177     | 5885            | 16.50         | 16.50         | 19.50         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 16.50         | 16.50         | 19.50         |
|                           |                      | 175     | 5875            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 16.50         | 16.50         | 19.50         |
|                           |                      | 173     | 5865            | 16.50         | 16.50         | 19.50         |
|                           |                      | 177     | 5885            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 16.50         | 16.50         | 19.50         |
|                           |                      | 175     | 5875            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 16.50         | 16.50         | 19.50         |
|                           |                      | 173     | 5865            | 16.50         | 16.50         | 19.50         |
|                           |                      | 177     | 5885            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 16.50         | 16.50         | 19.50         |
|                           |                      | 175     | 5875            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 16.50         | 16.50         | 19.50         |

**< Power index 2 >**
**<2.4GHz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 15.50         |
|                           |               | 6       | 2437            | 15.50         |
|                           |               | 11      | 2462            | 15.50         |
|                           |               | 12      | 2467            | 15.50         |
|                           |               | 13      | 2472            | 15.50         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 15.50         |
|                           |               | 6       | 2437            | 15.50         |
|                           |               | 11      | 2462            | 15.50         |
|                           |               | 12      | 2467            | 15.50         |
|                           |               | 13      | 2472            | 15.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 15.50         | 15.50         | 18.50         |
|                           |                     | 6       | 2437            | 15.50         | 15.50         | 18.50         |
|                           |                     | 11      | 2462            | 15.50         | 15.50         | 18.50         |
|                           |                     | 12      | 2467            | 15.50         | 15.50         | 18.50         |
|                           |                     | 13      | 2472            | 15.50         | 15.50         | 18.50         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 15.50         | 15.50         | 18.50         |
|                           |                     | 6       | 2437            | 15.50         | 15.50         | 18.50         |
|                           |                     | 11      | 2462            | 15.50         | 15.50         | 18.50         |
|                           |                     | 12      | 2467            | 15.50         | 15.50         | 18.50         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 15.50         | 15.50         | 18.50         |
|                           |                     | 6       | 2437            | 15.50         | 15.50         | 18.50         |
|                           |                     | 11      | 2462            | 15.50         | 15.50         | 18.50         |
|                           |                     | 12      | 2467            | 15.50         | 15.50         | 18.50         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 15.50         | 15.50         | 18.50         |
|                           |                     | 6       | 2437            | 15.50         | 15.50         | 18.50         |
|                           |                     | 11      | 2462            | 15.50         | 15.50         | 18.50         |
|                           |                     | 12      | 2467            | 15.50         | 15.50         | 18.50         |
|                           |                     | 13      | 2472            | 15.50         | 15.50         | 18.50         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.2GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 36      | 5180            | 13.50         | 13.50         | 16.50         |
|                           |                     | 40      | 5200            | 13.50         | 13.50         | 16.50         |
|                           |                     | 44      | 5220            | 13.50         | 13.50         | 16.50         |
|                           |                     | 48      | 5240            | 13.50         | 13.50         | 16.50         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 13.50         | 13.50         | 16.50         |
|                           |                     | 40      | 5200            | 13.50         | 13.50         | 16.50         |
|                           |                     | 44      | 5220            | 13.50         | 13.50         | 16.50         |
|                           |                     | 48      | 5240            | 13.50         | 13.50         | 16.50         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 13.50         | 13.50         | 16.50         |
|                           |                     | 46      | 5230            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 13.50         | 13.50         | 16.50         |
|                           |                     | 40      | 5200            | 13.50         | 13.50         | 16.50         |
|                           |                     | 44      | 5220            | 13.50         | 13.50         | 16.50         |
|                           |                     | 48      | 5240            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.50         | 13.50         | 16.50         |
|                           |                     | 46      | 5230            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 13.50         | 13.50         | 16.50         |
|                           |                     | 40      | 5200            | 13.50         | 13.50         | 16.50         |
|                           |                     | 44      | 5220            | 13.50         | 13.50         | 16.50         |
|                           |                     | 48      | 5240            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 13.50         | 13.50         | 16.50         |
|                           |                     | 46      | 5230            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 13.50         | 13.50         | 16.50         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.3GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 52      | 5260            | 13.50         | 13.50         | 16.50         |
|                           |                      | 56      | 5280            | 13.50         | 13.50         | 16.50         |
|                           |                      | 60      | 5300            | 13.50         | 13.50         | 16.50         |
|                           |                      | 64      | 5320            | 13.50         | 13.50         | 16.50         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 13.50         | 13.50         | 16.50         |
|                           |                      | 56      | 5280            | 13.50         | 13.50         | 16.50         |
|                           |                      | 60      | 5300            | 13.50         | 13.50         | 16.50         |
|                           |                      | 64      | 5320            | 13.50         | 13.50         | 16.50         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 13.50         | 13.50         | 16.50         |
|                           |                      | 62      | 5310            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 13.50         | 13.50         | 16.50         |
|                           |                      | 56      | 5280            | 13.50         | 13.50         | 16.50         |
|                           |                      | 60      | 5300            | 13.50         | 13.50         | 16.50         |
|                           |                      | 64      | 5320            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 13.50         | 13.50         | 16.50         |
|                           |                      | 62      | 5310            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 13.50         | 13.50         | 16.50         |
|                           |                      | 56      | 5280            | 13.50         | 13.50         | 16.50         |
|                           |                      | 60      | 5300            | 13.50         | 13.50         | 16.50         |
|                           |                      | 64      | 5320            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 13.50         | 13.50         | 16.50         |
|                           |                      | 62      | 5310            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 13.50         | 13.50         | 16.50         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 13.50         | 13.50         | 16.50         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.5GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 100     | 5500            | 15.00         | 15.00         | 18.00         |
|                           |                      | 116     | 5580            | 15.00         | 15.00         | 18.00         |
|                           |                      | 124     | 5620            | 15.00         | 15.00         | 18.00         |
|                           |                      | 132     | 5660            | 15.00         | 15.00         | 18.00         |
|                           |                      | 144     | 5720            | 15.00         | 15.00         | 18.00         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 15.00         | 15.00         | 18.00         |
|                           |                      | 116     | 5580            | 15.00         | 15.00         | 18.00         |
|                           |                      | 124     | 5620            | 15.00         | 15.00         | 18.00         |
|                           |                      | 132     | 5660            | 15.00         | 15.00         | 18.00         |
|                           |                      | 144     | 5720            | 15.00         | 15.00         | 18.00         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 15.00         | 15.00         | 18.00         |
|                           |                      | 126     | 5630            | 15.00         | 15.00         | 18.00         |
|                           |                      | 134     | 5670            | 15.00         | 15.00         | 18.00         |
|                           |                      | 142     | 5710            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 15.00         | 15.00         | 18.00         |
|                           |                      | 116     | 5580            | 15.00         | 15.00         | 18.00         |
|                           |                      | 124     | 5620            | 15.00         | 15.00         | 18.00         |
|                           |                      | 132     | 5660            | 15.00         | 15.00         | 18.00         |
|                           |                      | 144     | 5720            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 15.00         | 15.00         | 18.00         |
|                           |                      | 126     | 5630            | 15.00         | 15.00         | 18.00         |
|                           |                      | 134     | 5670            | 15.00         | 15.00         | 18.00         |
|                           |                      | 142     | 5710            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 15.00         | 15.00         | 18.00         |
|                           |                      | 122     | 5610            | 15.00         | 15.00         | 18.00         |
|                           |                      | 138     | 5690            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 15.00         | 15.00         | 18.00         |
|                           |                      | 116     | 5580            | 15.00         | 15.00         | 18.00         |
|                           |                      | 124     | 5620            | 15.00         | 15.00         | 18.00         |
|                           |                      | 132     | 5660            | 15.00         | 15.00         | 18.00         |
|                           |                      | 144     | 5720            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 15.00         | 15.00         | 18.00         |
|                           |                      | 126     | 5630            | 15.00         | 15.00         | 18.00         |
|                           |                      | 134     | 5670            | 15.00         | 15.00         | 18.00         |
|                           |                      | 142     | 5710            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 15.00         | 15.00         | 18.00         |
|                           |                      | 122     | 5610            | 15.00         | 15.00         | 18.00         |
|                           |                      | 138     | 5690            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 15.00         | 15.00         | 18.00         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 16.00         | 16.00         | 19.00         |
|                           |                     | 157     | 5785            | 16.00         | 16.00         | 19.00         |
|                           |                     | 165     | 5825            | 16.00         | 16.00         | 19.00         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 16.00         | 16.00         | 19.00         |
|                           |                     | 157     | 5785            | 16.00         | 16.00         | 19.00         |
|                           |                     | 165     | 5825            | 16.00         | 16.00         | 19.00         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 16.00         | 16.00         | 19.00         |
|                           |                     | 159     | 5795            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 16.00         | 16.00         | 19.00         |
|                           |                     | 157     | 5785            | 16.00         | 16.00         | 19.00         |
|                           |                     | 165     | 5825            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 16.00         | 16.00         | 19.00         |
|                           |                     | 159     | 5795            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 16.00         | 16.00         | 19.00         |
|                           |                     | 157     | 5785            | 16.00         | 16.00         | 19.00         |
|                           |                     | 165     | 5825            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 16.00         | 16.00         | 19.00         |
|                           |                     | 159     | 5795            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 16.00         | 16.00         | 19.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN<br>UNII4      | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 16.50         | 16.50         | 19.50         |
|                           |                      | 173     | 5865            | 16.50         | 16.50         | 19.50         |
|                           |                      | 177     | 5885            | 16.50         | 16.50         | 19.50         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 16.50         | 16.50         | 19.50         |
|                           |                      | 173     | 5865            | 16.50         | 16.50         | 19.50         |
|                           |                      | 177     | 5885            | 16.50         | 16.50         | 19.50         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 16.50         | 16.50         | 19.50         |
|                           |                      | 175     | 5875            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 16.50         | 16.50         | 19.50         |
|                           |                      | 173     | 5865            | 16.50         | 16.50         | 19.50         |
|                           |                      | 177     | 5885            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 16.50         | 16.50         | 19.50         |
|                           |                      | 175     | 5875            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 16.50         | 16.50         | 19.50         |
|                           |                      | 173     | 5865            | 16.50         | 16.50         | 19.50         |
|                           |                      | 177     | 5885            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 16.50         | 16.50         | 19.50         |
|                           |                      | 175     | 5875            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 16.50         | 16.50         | 19.50         |

**< Power index 3 >**
**<2.4GHz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 14.50         |
|                           |               | 6       | 2437            | 14.50         |
|                           |               | 11      | 2462            | 14.50         |
|                           |               | 12      | 2467            | 14.50         |
|                           |               | 13      | 2472            | 14.50         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 14.50         |
|                           |               | 6       | 2437            | 14.50         |
|                           |               | 11      | 2462            | 14.50         |
|                           |               | 12      | 2467            | 14.50         |
|                           |               | 13      | 2472            | 14.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 14.50         | 14.50         | 17.50         |
|                           |                     | 6       | 2437            | 14.50         | 14.50         | 17.50         |
|                           |                     | 11      | 2462            | 14.50         | 14.50         | 17.50         |
|                           |                     | 12      | 2467            | 14.50         | 14.50         | 17.50         |
|                           |                     | 13      | 2472            | 14.50         | 14.50         | 17.50         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 14.50         | 14.50         | 17.50         |
|                           |                     | 6       | 2437            | 14.50         | 14.50         | 17.50         |
|                           |                     | 11      | 2462            | 14.50         | 14.50         | 17.50         |
|                           |                     | 12      | 2467            | 14.50         | 14.50         | 17.50         |
|                           |                     | 13      | 2472            | 14.50         | 14.50         | 17.50         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 14.50         | 14.50         | 17.50         |
|                           |                     | 6       | 2437            | 14.50         | 14.50         | 17.50         |
|                           |                     | 11      | 2462            | 14.50         | 14.50         | 17.50         |
|                           |                     | 12      | 2467            | 14.50         | 14.50         | 17.50         |
|                           |                     | 13      | 2472            | 14.50         | 14.50         | 17.50         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 14.50         | 14.50         | 17.50         |
|                           |                     | 6       | 2437            | 14.50         | 14.50         | 17.50         |
|                           |                     | 11      | 2462            | 14.50         | 14.50         | 17.50         |
|                           |                     | 12      | 2467            | 14.50         | 14.50         | 17.50         |
|                           |                     | 13      | 2472            | 14.50         | 14.50         | 17.50         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.2GHz WLAN               | 802.11a 6Mbps       | 36      | 5180            | 10.00         | 10.00         | 13.00         |
|                           |                     | 40      | 5200            | 10.00         | 10.00         | 13.00         |
|                           |                     | 44      | 5220            | 10.00         | 10.00         | 13.00         |
|                           |                     | 48      | 5240            | 10.00         | 10.00         | 13.00         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 10.00         | 10.00         | 13.00         |
|                           |                     | 40      | 5200            | 10.00         | 10.00         | 13.00         |
|                           |                     | 44      | 5220            | 10.00         | 10.00         | 13.00         |
|                           |                     | 48      | 5240            | 10.00         | 10.00         | 13.00         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 10.00         | 10.00         | 13.00         |
|                           |                     | 46      | 5230            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 10.00         | 10.00         | 13.00         |
|                           |                     | 40      | 5200            | 10.00         | 10.00         | 13.00         |
|                           |                     | 44      | 5220            | 10.00         | 10.00         | 13.00         |
|                           |                     | 48      | 5240            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 10.00         | 10.00         | 13.00         |
|                           |                     | 46      | 5230            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 10.00         | 10.00         | 13.00         |
|                           |                     | 40      | 5200            | 10.00         | 10.00         | 13.00         |
|                           |                     | 44      | 5220            | 10.00         | 10.00         | 13.00         |
|                           |                     | 48      | 5240            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 10.00         | 10.00         | 13.00         |
|                           |                     | 46      | 5230            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 10.00         | 10.00         | 13.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.3GHz WLAN               | 802.11a 6Mbps        | 52      | 5260            | 10.00         | 10.00         | 13.00         |
|                           |                      | 56      | 5280            | 10.00         | 10.00         | 13.00         |
|                           |                      | 60      | 5300            | 10.00         | 10.00         | 13.00         |
|                           |                      | 64      | 5320            | 10.00         | 10.00         | 13.00         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 10.00         | 10.00         | 13.00         |
|                           |                      | 56      | 5280            | 10.00         | 10.00         | 13.00         |
|                           |                      | 60      | 5300            | 10.00         | 10.00         | 13.00         |
|                           |                      | 64      | 5320            | 10.00         | 10.00         | 13.00         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 10.00         | 10.00         | 13.00         |
|                           |                      | 62      | 5310            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 10.00         | 10.00         | 13.00         |
|                           |                      | 56      | 5280            | 10.00         | 10.00         | 13.00         |
|                           |                      | 60      | 5300            | 10.00         | 10.00         | 13.00         |
|                           |                      | 64      | 5320            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 10.00         | 10.00         | 13.00         |
|                           |                      | 62      | 5310            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 10.00         | 10.00         | 13.00         |
|                           |                      | 56      | 5280            | 10.00         | 10.00         | 13.00         |
|                           |                      | 60      | 5300            | 10.00         | 10.00         | 13.00         |
|                           |                      | 64      | 5320            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 10.00         | 10.00         | 13.00         |
|                           |                      | 62      | 5310            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 10.00         | 10.00         | 13.00         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.5GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 100     | 5500            | 11.00         | 11.00         | 14.00         |
|                           |                      | 116     | 5580            | 11.00         | 11.00         | 14.00         |
|                           |                      | 124     | 5620            | 11.00         | 11.00         | 14.00         |
|                           |                      | 132     | 5660            | 11.00         | 11.00         | 14.00         |
|                           |                      | 144     | 5720            | 11.00         | 11.00         | 14.00         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 11.00         | 11.00         | 14.00         |
|                           |                      | 116     | 5580            | 11.00         | 11.00         | 14.00         |
|                           |                      | 124     | 5620            | 11.00         | 11.00         | 14.00         |
|                           |                      | 132     | 5660            | 11.00         | 11.00         | 14.00         |
|                           |                      | 144     | 5720            | 11.00         | 11.00         | 14.00         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 11.00         | 11.00         | 14.00         |
|                           |                      | 110     | 5550            | 11.00         | 11.00         | 14.00         |
|                           |                      | 126     | 5630            | 11.00         | 11.00         | 14.00         |
|                           |                      | 134     | 5670            | 11.00         | 11.00         | 14.00         |
|                           |                      | 142     | 5710            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 11.00         | 11.00         | 14.00         |
|                           |                      | 116     | 5580            | 11.00         | 11.00         | 14.00         |
|                           |                      | 124     | 5620            | 11.00         | 11.00         | 14.00         |
|                           |                      | 132     | 5660            | 11.00         | 11.00         | 14.00         |
|                           |                      | 144     | 5720            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 11.00         | 11.00         | 14.00         |
|                           |                      | 110     | 5550            | 11.00         | 11.00         | 14.00         |
|                           |                      | 126     | 5630            | 11.00         | 11.00         | 14.00         |
|                           |                      | 134     | 5670            | 11.00         | 11.00         | 14.00         |
|                           |                      | 142     | 5710            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 11.00         | 11.00         | 14.00         |
|                           |                      | 122     | 5610            | 11.00         | 11.00         | 14.00         |
|                           |                      | 138     | 5690            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 11.00         | 11.00         | 14.00         |
|                           |                      | 116     | 5580            | 11.00         | 11.00         | 14.00         |
|                           |                      | 124     | 5620            | 11.00         | 11.00         | 14.00         |
|                           |                      | 132     | 5660            | 11.00         | 11.00         | 14.00         |
|                           |                      | 144     | 5720            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 11.00         | 11.00         | 14.00         |
|                           |                      | 110     | 5550            | 11.00         | 11.00         | 14.00         |
|                           |                      | 126     | 5630            | 11.00         | 11.00         | 14.00         |
|                           |                      | 134     | 5670            | 11.00         | 11.00         | 14.00         |
|                           |                      | 142     | 5710            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 11.00         | 11.00         | 14.00         |
|                           |                      | 122     | 5610            | 11.00         | 11.00         | 14.00         |
|                           |                      | 138     | 5690            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 11.00         | 11.00         | 14.00         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 12.00         | 12.00         | 15.00         |
|                           |                     | 157     | 5785            | 12.00         | 12.00         | 15.00         |
|                           |                     | 165     | 5825            | 12.00         | 12.00         | 15.00         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 12.00         | 12.00         | 15.00         |
|                           |                     | 157     | 5785            | 12.00         | 12.00         | 15.00         |
|                           |                     | 165     | 5825            | 12.00         | 12.00         | 15.00         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 12.00         | 12.00         | 15.00         |
|                           |                     | 159     | 5795            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 12.00         | 12.00         | 15.00         |
|                           |                     | 157     | 5785            | 12.00         | 12.00         | 15.00         |
|                           |                     | 165     | 5825            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 12.00         | 12.00         | 15.00         |
|                           |                     | 159     | 5795            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 12.00         | 12.00         | 15.00         |
|                           |                     | 157     | 5785            | 12.00         | 12.00         | 15.00         |
|                           |                     | 165     | 5825            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 12.00         | 12.00         | 15.00         |
|                           |                     | 159     | 5795            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 12.00         | 12.00         | 15.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN<br>UNII4      | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 12.50         | 12.50         | 15.50         |
|                           |                      | 173     | 5865            | 12.50         | 12.50         | 15.50         |
|                           |                      | 177     | 5885            | 12.50         | 12.50         | 15.50         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 12.50         | 12.50         | 15.50         |
|                           |                      | 173     | 5865            | 12.50         | 12.50         | 15.50         |
|                           |                      | 177     | 5885            | 12.50         | 12.50         | 15.50         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 12.50         | 12.50         | 15.50         |
|                           |                      | 175     | 5875            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 12.50         | 12.50         | 15.50         |
|                           |                      | 173     | 5865            | 12.50         | 12.50         | 15.50         |
|                           |                      | 177     | 5885            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 12.50         | 12.50         | 15.50         |
|                           |                      | 175     | 5875            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 12.50         | 12.50         | 15.50         |
|                           |                      | 173     | 5865            | 12.50         | 12.50         | 15.50         |
|                           |                      | 177     | 5885            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 12.50         | 12.50         | 15.50         |
|                           |                      | 175     | 5875            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 12.50         | 12.50         | 15.50         |

**< Power index 4 >**
**<2.4GHz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 11.00         |
|                           |               | 6       | 2437            | 11.00         |
|                           |               | 11      | 2462            | 11.00         |
|                           |               | 12      | 2467            | 11.00         |
|                           |               | 13      | 2472            | 11.00         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 11.00         |
|                           |               | 6       | 2437            | 11.00         |
|                           |               | 11      | 2462            | 11.00         |
|                           |               | 12      | 2467            | 11.00         |
|                           |               | 13      | 2472            | 11.00         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 11.00         | 11.00         | 14.00         |
|                           |                     | 6       | 2437            | 11.00         | 11.00         | 14.00         |
|                           |                     | 11      | 2462            | 11.00         | 11.00         | 14.00         |
|                           |                     | 12      | 2467            | 11.00         | 11.00         | 14.00         |
|                           |                     | 13      | 2472            | 11.00         | 11.00         | 14.00         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 11.00         | 11.00         | 14.00         |
|                           |                     | 6       | 2437            | 11.00         | 11.00         | 14.00         |
|                           |                     | 11      | 2462            | 11.00         | 11.00         | 14.00         |
|                           |                     | 12      | 2467            | 11.00         | 11.00         | 14.00         |
|                           |                     | 13      | 2472            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 11.00         | 11.00         | 14.00         |
|                           |                     | 6       | 2437            | 11.00         | 11.00         | 14.00         |
|                           |                     | 11      | 2462            | 11.00         | 11.00         | 14.00         |
|                           |                     | 12      | 2467            | 11.00         | 11.00         | 14.00         |
|                           |                     | 13      | 2472            | 11.00         | 11.00         | 14.00         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 11.00         | 11.00         | 14.00         |
|                           |                     | 6       | 2437            | 11.00         | 11.00         | 14.00         |
|                           |                     | 11      | 2462            | 11.00         | 11.00         | 14.00         |
|                           |                     | 12      | 2467            | 11.00         | 11.00         | 14.00         |
|                           |                     | 13      | 2472            | 11.00         | 11.00         | 14.00         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.2GHz WLAN               | 802.11a 6Mbps       | 36      | 5180            | 10.00         | 10.00         | 13.00         |
|                           |                     | 40      | 5200            | 10.00         | 10.00         | 13.00         |
|                           |                     | 44      | 5220            | 10.00         | 10.00         | 13.00         |
|                           |                     | 48      | 5240            | 10.00         | 10.00         | 13.00         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 10.00         | 10.00         | 13.00         |
|                           |                     | 40      | 5200            | 10.00         | 10.00         | 13.00         |
|                           |                     | 44      | 5220            | 10.00         | 10.00         | 13.00         |
|                           |                     | 48      | 5240            | 10.00         | 10.00         | 13.00         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 10.00         | 10.00         | 13.00         |
|                           |                     | 46      | 5230            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 10.00         | 10.00         | 13.00         |
|                           |                     | 40      | 5200            | 10.00         | 10.00         | 13.00         |
|                           |                     | 44      | 5220            | 10.00         | 10.00         | 13.00         |
|                           |                     | 48      | 5240            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 10.00         | 10.00         | 13.00         |
|                           |                     | 46      | 5230            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 10.00         | 10.00         | 13.00         |
|                           |                     | 40      | 5200            | 10.00         | 10.00         | 13.00         |
|                           |                     | 44      | 5220            | 10.00         | 10.00         | 13.00         |
|                           |                     | 48      | 5240            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 10.00         | 10.00         | 13.00         |
|                           |                     | 46      | 5230            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 10.00         | 10.00         | 13.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.3GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 52      | 5260            | 10.00         | 10.00         | 13.00         |
|                           |                      | 56      | 5280            | 10.00         | 10.00         | 13.00         |
|                           |                      | 60      | 5300            | 10.00         | 10.00         | 13.00         |
|                           |                      | 64      | 5320            | 10.00         | 10.00         | 13.00         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 10.00         | 10.00         | 13.00         |
|                           |                      | 56      | 5280            | 10.00         | 10.00         | 13.00         |
|                           |                      | 60      | 5300            | 10.00         | 10.00         | 13.00         |
|                           |                      | 64      | 5320            | 10.00         | 10.00         | 13.00         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 10.00         | 10.00         | 13.00         |
|                           |                      | 62      | 5310            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 10.00         | 10.00         | 13.00         |
|                           |                      | 56      | 5280            | 10.00         | 10.00         | 13.00         |
|                           |                      | 60      | 5300            | 10.00         | 10.00         | 13.00         |
|                           |                      | 64      | 5320            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 10.00         | 10.00         | 13.00         |
|                           |                      | 62      | 5310            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 10.00         | 10.00         | 13.00         |
|                           |                      | 56      | 5280            | 10.00         | 10.00         | 13.00         |
|                           |                      | 60      | 5300            | 10.00         | 10.00         | 13.00         |
|                           |                      | 64      | 5320            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 10.00         | 10.00         | 13.00         |
|                           |                      | 62      | 5310            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 10.00         | 10.00         | 13.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.5GHz WLAN               | 802.11a 6Mbps        | 100     | 5500            | 11.50         | 11.50         | 14.50         |
|                           |                      | 116     | 5580            | 11.50         | 11.50         | 14.50         |
|                           |                      | 124     | 5620            | 11.50         | 11.50         | 14.50         |
|                           |                      | 132     | 5660            | 11.50         | 11.50         | 14.50         |
|                           |                      | 144     | 5720            | 11.50         | 11.50         | 14.50         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 11.50         | 11.50         | 14.50         |
|                           |                      | 116     | 5580            | 11.50         | 11.50         | 14.50         |
|                           |                      | 124     | 5620            | 11.50         | 11.50         | 14.50         |
|                           |                      | 132     | 5660            | 11.50         | 11.50         | 14.50         |
|                           |                      | 144     | 5720            | 11.50         | 11.50         | 14.50         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 11.50         | 11.50         | 14.50         |
|                           |                      | 110     | 5550            | 11.50         | 11.50         | 14.50         |
|                           |                      | 126     | 5630            | 11.50         | 11.50         | 14.50         |
|                           |                      | 134     | 5670            | 11.50         | 11.50         | 14.50         |
|                           |                      | 142     | 5710            | 11.50         | 11.50         | 14.50         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 11.50         | 11.50         | 14.50         |
|                           |                      | 116     | 5580            | 11.50         | 11.50         | 14.50         |
|                           |                      | 124     | 5620            | 11.50         | 11.50         | 14.50         |
|                           |                      | 132     | 5660            | 11.50         | 11.50         | 14.50         |
|                           |                      | 144     | 5720            | 11.50         | 11.50         | 14.50         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 11.50         | 11.50         | 14.50         |
|                           |                      | 110     | 5550            | 11.50         | 11.50         | 14.50         |
|                           |                      | 126     | 5630            | 11.50         | 11.50         | 14.50         |
|                           |                      | 134     | 5670            | 11.50         | 11.50         | 14.50         |
|                           |                      | 142     | 5710            | 11.50         | 11.50         | 14.50         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 11.50         | 11.50         | 14.50         |
|                           |                      | 122     | 5610            | 11.50         | 11.50         | 14.50         |
|                           |                      | 138     | 5690            | 11.50         | 11.50         | 14.50         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 11.50         | 11.50         | 14.50         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 11.50         | 11.50         | 14.50         |
|                           |                      | 116     | 5580            | 11.50         | 11.50         | 14.50         |
|                           |                      | 124     | 5620            | 11.50         | 11.50         | 14.50         |
|                           |                      | 132     | 5660            | 11.50         | 11.50         | 14.50         |
|                           |                      | 144     | 5720            | 11.50         | 11.50         | 14.50         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 11.50         | 11.50         | 14.50         |
|                           |                      | 110     | 5550            | 11.50         | 11.50         | 14.50         |
|                           |                      | 126     | 5630            | 11.50         | 11.50         | 14.50         |
|                           |                      | 134     | 5670            | 11.50         | 11.50         | 14.50         |
|                           |                      | 142     | 5710            | 11.50         | 11.50         | 14.50         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 11.50         | 11.50         | 14.50         |
|                           |                      | 122     | 5610            | 11.50         | 11.50         | 14.50         |
|                           |                      | 138     | 5690            | 11.50         | 11.50         | 14.50         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 11.50         | 11.50         | 14.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 12.00         | 12.00         | 15.00         |
|                           |                     | 157     | 5785            | 12.00         | 12.00         | 15.00         |
|                           |                     | 165     | 5825            | 12.00         | 12.00         | 15.00         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 12.00         | 12.00         | 15.00         |
|                           |                     | 157     | 5785            | 12.00         | 12.00         | 15.00         |
|                           |                     | 165     | 5825            | 12.00         | 12.00         | 15.00         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 12.00         | 12.00         | 15.00         |
|                           |                     | 159     | 5795            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 12.00         | 12.00         | 15.00         |
|                           |                     | 157     | 5785            | 12.00         | 12.00         | 15.00         |
|                           |                     | 165     | 5825            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 12.00         | 12.00         | 15.00         |
|                           |                     | 159     | 5795            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 12.00         | 12.00         | 15.00         |
|                           |                     | 157     | 5785            | 12.00         | 12.00         | 15.00         |
|                           |                     | 165     | 5825            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 12.00         | 12.00         | 15.00         |
|                           |                     | 159     | 5795            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 12.00         | 12.00         | 15.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN<br>UNII4      | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 12.50         | 12.50         | 15.50         |
|                           |                      | 173     | 5865            | 12.50         | 12.50         | 15.50         |
|                           |                      | 177     | 5885            | 12.50         | 12.50         | 15.50         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 12.50         | 12.50         | 15.50         |
|                           |                      | 173     | 5865            | 12.50         | 12.50         | 15.50         |
|                           |                      | 177     | 5885            | 12.50         | 12.50         | 15.50         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 12.50         | 12.50         | 15.50         |
|                           |                      | 175     | 5875            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 12.50         | 12.50         | 15.50         |
|                           |                      | 173     | 5865            | 12.50         | 12.50         | 15.50         |
|                           |                      | 177     | 5885            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 12.50         | 12.50         | 15.50         |
|                           |                      | 175     | 5875            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 12.50         | 12.50         | 15.50         |
|                           |                      | 173     | 5865            | 12.50         | 12.50         | 15.50         |
|                           |                      | 177     | 5885            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 12.50         | 12.50         | 15.50         |
|                           |                      | 175     | 5875            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 12.50         | 12.50         | 15.50         |

**< Power index 5 >**
**<2.4GHz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 23.00         |
|                           |               | 6       | 2437            | 23.00         |
|                           |               | 11      | 2462            | 23.00         |
|                           |               | 12      | 2467            | 23.00         |
|                           |               | 13      | 2472            | 23.00         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 22.00         |
|                           |               | 6       | 2437            | 23.00         |
|                           |               | 11      | 2462            | 23.00         |
|                           |               | 12      | 2467            | 23.00         |
|                           |               | 13      | 2472            | 21.00         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.2GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 36      | 5180            | 18.50         | 18.50         | 21.50         |
|                           |                     | 40      | 5200            | 18.50         | 18.50         | 21.50         |
|                           |                     | 44      | 5220            | 18.50         | 18.50         | 21.50         |
|                           |                     | 48      | 5240            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 18.50         | 18.50         | 21.50         |
|                           |                     | 40      | 5200            | 18.50         | 18.50         | 21.50         |
|                           |                     | 44      | 5220            | 18.50         | 18.50         | 21.50         |
|                           |                     | 48      | 5240            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 18.50         | 18.50         | 21.50         |
|                           |                     | 40      | 5200            | 18.50         | 18.50         | 21.50         |
|                           |                     | 44      | 5220            | 18.50         | 18.50         | 21.50         |
|                           |                     | 48      | 5240            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 18.50         | 18.50         | 21.50         |
|                           |                     | 40      | 5200            | 18.50         | 18.50         | 21.50         |
|                           |                     | 44      | 5220            | 18.50         | 18.50         | 21.50         |
|                           |                     | 48      | 5240            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 16.50         | 16.50         | 19.50         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.3GHz WLAN               | 802.11a 6Mbps        | 52      | 5260            | 18.50         | 18.50         | 21.50         |
|                           |                      | 56      | 5280            | 18.50         | 18.50         | 21.50         |
|                           |                      | 60      | 5300            | 18.50         | 18.50         | 21.50         |
|                           |                      | 64      | 5320            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 18.50         | 18.50         | 21.50         |
|                           |                      | 56      | 5280            | 18.50         | 18.50         | 21.50         |
|                           |                      | 60      | 5300            | 18.50         | 18.50         | 21.50         |
|                           |                      | 64      | 5320            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 18.50         | 18.50         | 21.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 18.50         | 18.50         | 21.50         |
|                           |                      | 56      | 5280            | 18.50         | 18.50         | 21.50         |
|                           |                      | 60      | 5300            | 18.50         | 18.50         | 21.50         |
|                           |                      | 64      | 5320            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 18.50         | 18.50         | 21.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 15            | 15            | 18.00         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 18.50         | 18.50         | 21.50         |
|                           |                      | 56      | 5280            | 18.50         | 18.50         | 21.50         |
|                           |                      | 60      | 5300            | 18.50         | 18.50         | 21.50         |
|                           |                      | 64      | 5320            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 18.50         | 18.50         | 21.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 15            | 15            | 18.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.5GHz WLAN               | 802.11a 6Mbps        | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 18.50         | 18.50         | 21.50         |
|                           |                      | 138     | 5690            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 15.50         | 15.50         | 18.50         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 18.50         | 18.50         | 21.50         |
|                           |                      | 138     | 5690            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 15.50         | 15.50         | 18.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 21.00         | 21.00         | 24.00         |
|                           |                     | 157     | 5785            | 21.00         | 21.00         | 24.00         |
|                           |                     | 165     | 5825            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 21.00         | 21.00         | 24.00         |
|                           |                     | 157     | 5785            | 21.00         | 21.00         | 24.00         |
|                           |                     | 165     | 5825            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 21.00         | 21.00         | 24.00         |
|                           |                     | 159     | 5795            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 21.00         | 21.00         | 24.00         |
|                           |                     | 157     | 5785            | 21.00         | 21.00         | 24.00         |
|                           |                     | 165     | 5825            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 21.00         | 21.00         | 24.00         |
|                           |                     | 159     | 5795            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 21.00         | 21.00         | 24.00         |
|                           |                     | 157     | 5785            | 21.00         | 21.00         | 24.00         |
|                           |                     | 165     | 5825            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 21.00         | 21.00         | 24.00         |
|                           |                     | 159     | 5795            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 21.00         | 21.00         | 24.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN<br>UNII4      | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 20.00         | 20.00         | 23.00         |
|                           |                      | 173     | 5865            | 20.00         | 20.00         | 23.00         |
|                           |                      | 177     | 5885            | 20.00         | 20.00         | 23.00         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 20.00         | 20.00         | 23.00         |
|                           |                      | 173     | 5865            | 20.00         | 20.00         | 23.00         |
|                           |                      | 177     | 5885            | 20.00         | 20.00         | 23.00         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 20.00         | 20.00         | 23.00         |
|                           |                      | 175     | 5875            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 20.00         | 20.00         | 23.00         |
|                           |                      | 173     | 5865            | 20.00         | 20.00         | 23.00         |
|                           |                      | 177     | 5885            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 20.00         | 20.00         | 23.00         |
|                           |                      | 175     | 5875            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 20.00         | 20.00         | 23.00         |
|                           |                      | 173     | 5865            | 20.00         | 20.00         | 23.00         |
|                           |                      | 177     | 5885            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 20.00         | 20.00         | 23.00         |
|                           |                      | 175     | 5875            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 20.00         | 20.00         | 23.00         |

**< Power index 6 >**
**<2.4GHz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 23.00         |
|                           |               | 6       | 2437            | 23.00         |
|                           |               | 11      | 2462            | 23.00         |
|                           |               | 12      | 2467            | 23.00         |
|                           |               | 13      | 2472            | 23.00         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 22.00         |
|                           |               | 6       | 2437            | 23.00         |
|                           |               | 11      | 2462            | 23.00         |
|                           |               | 12      | 2467            | 23.00         |
|                           |               | 13      | 2472            | 21.00         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 23.00         | 23.00         | 26.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.2GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 36      | 5180            | 18.50         | 18.50         | 21.50         |
|                           |                     | 40      | 5200            | 18.50         | 18.50         | 21.50         |
|                           |                     | 44      | 5220            | 18.50         | 18.50         | 21.50         |
|                           |                     | 48      | 5240            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 18.50         | 18.50         | 21.50         |
|                           |                     | 40      | 5200            | 18.50         | 18.50         | 21.50         |
|                           |                     | 44      | 5220            | 18.50         | 18.50         | 21.50         |
|                           |                     | 48      | 5240            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 18.50         | 18.50         | 21.50         |
|                           |                     | 40      | 5200            | 18.50         | 18.50         | 21.50         |
|                           |                     | 44      | 5220            | 18.50         | 18.50         | 21.50         |
|                           |                     | 48      | 5240            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 18.50         | 18.50         | 21.50         |
|                           |                     | 40      | 5200            | 18.50         | 18.50         | 21.50         |
|                           |                     | 44      | 5220            | 18.50         | 18.50         | 21.50         |
|                           |                     | 48      | 5240            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 17.00         | 17.00         | 20.00         |
|                           |                     | 46      | 5230            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 16.50         | 16.50         | 19.50         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.3GHz WLAN               | 802.11a 6Mbps        | 52      | 5260            | 18.50         | 18.50         | 21.50         |
|                           |                      | 56      | 5280            | 18.50         | 18.50         | 21.50         |
|                           |                      | 60      | 5300            | 18.50         | 18.50         | 21.50         |
|                           |                      | 64      | 5320            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 18.50         | 18.50         | 21.50         |
|                           |                      | 56      | 5280            | 18.50         | 18.50         | 21.50         |
|                           |                      | 60      | 5300            | 18.50         | 18.50         | 21.50         |
|                           |                      | 64      | 5320            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 18.50         | 18.50         | 21.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 18.50         | 18.50         | 21.50         |
|                           |                      | 56      | 5280            | 18.50         | 18.50         | 21.50         |
|                           |                      | 60      | 5300            | 18.50         | 18.50         | 21.50         |
|                           |                      | 64      | 5320            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 18.50         | 18.50         | 21.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 15            | 15            | 18.00         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 18.50         | 18.50         | 21.50         |
|                           |                      | 56      | 5280            | 18.50         | 18.50         | 21.50         |
|                           |                      | 60      | 5300            | 18.50         | 18.50         | 21.50         |
|                           |                      | 64      | 5320            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 18.50         | 18.50         | 21.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 15            | 15            | 18.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.5GHz WLAN               | 802.11a 6Mbps        | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 18.50         | 18.50         | 21.50         |
|                           |                      | 138     | 5690            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 15.50         | 15.50         | 18.50         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 18.50         | 18.50         | 21.50         |
|                           |                      | 138     | 5690            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 15.50         | 15.50         | 18.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 21.00         | 21.00         | 24.00         |
|                           |                     | 157     | 5785            | 21.00         | 21.00         | 24.00         |
|                           |                     | 165     | 5825            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 21.00         | 21.00         | 24.00         |
|                           |                     | 157     | 5785            | 21.00         | 21.00         | 24.00         |
|                           |                     | 165     | 5825            | 21.00         | 21.00         | 24.00         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 21.00         | 21.00         | 24.00         |
|                           |                     | 159     | 5795            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 21.00         | 21.00         | 24.00         |
|                           |                     | 157     | 5785            | 21.00         | 21.00         | 24.00         |
|                           |                     | 165     | 5825            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 21.00         | 21.00         | 24.00         |
|                           |                     | 159     | 5795            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 21.00         | 21.00         | 24.00         |
|                           |                     | 157     | 5785            | 21.00         | 21.00         | 24.00         |
|                           |                     | 165     | 5825            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 21.00         | 21.00         | 24.00         |
|                           |                     | 159     | 5795            | 21.00         | 21.00         | 24.00         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 21.00         | 21.00         | 24.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN UNII4         | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 20.00         | 20.00         | 23.00         |
|                           |                      | 173     | 5865            | 20.00         | 20.00         | 23.00         |
|                           |                      | 177     | 5885            | 20.00         | 20.00         | 23.00         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 20.00         | 20.00         | 23.00         |
|                           |                      | 173     | 5865            | 20.00         | 20.00         | 23.00         |
|                           |                      | 177     | 5885            | 20.00         | 20.00         | 23.00         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 20.00         | 20.00         | 23.00         |
|                           |                      | 175     | 5875            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 20.00         | 20.00         | 23.00         |
|                           |                      | 173     | 5865            | 20.00         | 20.00         | 23.00         |
|                           |                      | 177     | 5885            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 20.00         | 20.00         | 23.00         |
|                           |                      | 175     | 5875            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 20.00         | 20.00         | 23.00         |
|                           |                      | 173     | 5865            | 20.00         | 20.00         | 23.00         |
|                           |                      | 177     | 5885            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 20.00         | 20.00         | 23.00         |
|                           |                      | 175     | 5875            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 20.00         | 20.00         | 23.00         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 20.00         | 20.00         | 23.00         |

**< Power index 7 >**
**<2.4GHz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 21.00         |
|                           |               | 6       | 2437            | 21.00         |
|                           |               | 11      | 2462            | 21.00         |
|                           |               | 12      | 2467            | 21.00         |
|                           |               | 13      | 2472            | 21.00         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 21.00         |
|                           |               | 6       | 2437            | 21.00         |
|                           |               | 11      | 2462            | 21.00         |
|                           |               | 12      | 2467            | 21.00         |
|                           |               | 13      | 2472            | 21.00         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 21.00         | 21.00         | 24.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 21.00         | 21.00         | 24.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 21.00         | 21.00         | 24.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 20.00         | 20.00         | 23.00         |
|                           |                     | 6       | 2437            | 21.00         | 21.00         | 24.00         |
|                           |                     | 11      | 2462            | 20.00         | 20.00         | 23.00         |
|                           |                     | 12      | 2467            | 18.50         | 18.50         | 21.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.2GHz WLAN               | 802.11a 6Mbps       | 36      | 5180            | 15.00         | 15.00         | 18.00         |
|                           |                     | 40      | 5200            | 15.00         | 15.00         | 18.00         |
|                           |                     | 44      | 5220            | 15.00         | 15.00         | 18.00         |
|                           |                     | 48      | 5240            | 15.00         | 15.00         | 18.00         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 15.00         | 15.00         | 18.00         |
|                           |                     | 40      | 5200            | 15.00         | 15.00         | 18.00         |
|                           |                     | 44      | 5220            | 15.00         | 15.00         | 18.00         |
|                           |                     | 48      | 5240            | 15.00         | 15.00         | 18.00         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 15.00         | 15.00         | 18.00         |
|                           |                     | 46      | 5230            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 15.00         | 15.00         | 18.00         |
|                           |                     | 40      | 5200            | 15.00         | 15.00         | 18.00         |
|                           |                     | 44      | 5220            | 15.00         | 15.00         | 18.00         |
|                           |                     | 48      | 5240            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 15.00         | 15.00         | 18.00         |
|                           |                     | 46      | 5230            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 15.00         | 15.00         | 18.00         |
|                           |                     | 40      | 5200            | 15.00         | 15.00         | 18.00         |
|                           |                     | 44      | 5220            | 15.00         | 15.00         | 18.00         |
|                           |                     | 48      | 5240            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 15.00         | 15.00         | 18.00         |
|                           |                     | 46      | 5230            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 15.00         | 15.00         | 18.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.3GHz WLAN               | 802.11a 6Mbps        | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 15.00         | 15.00         | 18.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.5GHz WLAN               | 802.11a 6Mbps        | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 18.50         | 18.50         | 21.50         |
|                           |                      | 138     | 5690            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 15.50         | 15.50         | 18.50         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 18.50         | 18.50         | 21.50         |
|                           |                      | 116     | 5580            | 18.50         | 18.50         | 21.50         |
|                           |                      | 124     | 5620            | 18.50         | 18.50         | 21.50         |
|                           |                      | 132     | 5660            | 18.50         | 18.50         | 21.50         |
|                           |                      | 144     | 5720            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 18.50         | 18.50         | 21.50         |
|                           |                      | 126     | 5630            | 18.50         | 18.50         | 21.50         |
|                           |                      | 134     | 5670            | 18.50         | 18.50         | 21.50         |
|                           |                      | 142     | 5710            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 18.50         | 18.50         | 21.50         |
|                           |                      | 138     | 5690            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 15.50         | 15.50         | 18.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 18.50         | 18.50         | 21.50         |
|                           |                     | 157     | 5785            | 18.50         | 18.50         | 21.50         |
|                           |                     | 165     | 5825            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 18.50         | 18.50         | 21.50         |
|                           |                     | 157     | 5785            | 18.50         | 18.50         | 21.50         |
|                           |                     | 165     | 5825            | 18.50         | 18.50         | 21.50         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 18.50         | 18.50         | 21.50         |
|                           |                     | 159     | 5795            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 18.50         | 18.50         | 21.50         |
|                           |                     | 157     | 5785            | 18.50         | 18.50         | 21.50         |
|                           |                     | 165     | 5825            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 18.50         | 18.50         | 21.50         |
|                           |                     | 159     | 5795            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 18.50         | 18.50         | 21.50         |
|                           |                     | 157     | 5785            | 18.50         | 18.50         | 21.50         |
|                           |                     | 165     | 5825            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 18.50         | 18.50         | 21.50         |
|                           |                     | 159     | 5795            | 18.50         | 18.50         | 21.50         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 18.50         | 18.50         | 21.50         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN<br>UNII4      | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 19.50         | 19.50         | 22.50         |

**< Power index 8 >**
**<2.4GHz WLAN>**

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 4    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 17.50         |
|                           |               | 6       | 2437            | 17.50         |
|                           |               | 11      | 2462            | 17.50         |
|                           |               | 12      | 2467            | 17.50         |
|                           |               | 13      | 2472            | 17.50         |

| Burst Average Power (dBm) |               |         |                 |               |
|---------------------------|---------------|---------|-----------------|---------------|
| Transmit Antenna          |               |         |                 | SISO Ant 3    |
| 2.4GHz WLAN               | Mode          | Channel | Frequency (MHz) | Tune-Up Limit |
|                           | 802.11b 1Mbps | 1       | 2412            | 17.50         |
|                           |               | 6       | 2437            | 17.50         |
|                           |               | 11      | 2462            | 17.50         |
|                           |               | 12      | 2467            | 17.50         |
|                           |               | 13      | 2472            | 17.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 2.4GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11g 6Mbps       | 1       | 2412            | 17.50         | 17.50         | 20.50         |
|                           |                     | 6       | 2437            | 17.50         | 17.50         | 20.50         |
|                           |                     | 11      | 2462            | 17.50         | 17.50         | 20.50         |
|                           |                     | 12      | 2467            | 17.50         | 17.50         | 20.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11n-HT20 MCS0   | 1       | 2412            | 17.50         | 17.50         | 20.50         |
|                           |                     | 6       | 2437            | 17.50         | 17.50         | 20.50         |
|                           |                     | 11      | 2462            | 17.50         | 17.50         | 20.50         |
|                           |                     | 12      | 2467            | 17.50         | 17.50         | 20.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0 | 1       | 2412            | 17.50         | 17.50         | 20.50         |
|                           |                     | 6       | 2437            | 17.50         | 17.50         | 20.50         |
|                           |                     | 11      | 2462            | 17.50         | 17.50         | 20.50         |
|                           |                     | 12      | 2467            | 17.50         | 17.50         | 20.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE20 MCS0  | 1       | 2412            | 17.50         | 17.50         | 20.50         |
|                           |                     | 6       | 2437            | 17.50         | 17.50         | 20.50         |
|                           |                     | 11      | 2462            | 17.50         | 17.50         | 20.50         |
|                           |                     | 12      | 2467            | 17.50         | 17.50         | 20.50         |
|                           |                     | 13      | 2472            | 17.00         | 17.00         | 20.00         |

**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.2GHz WLAN               | 802.11a 6Mbps       | 36      | 5180            | 13.00         | 13.00         | 16.00         |
|                           |                     | 40      | 5200            | 13.00         | 13.00         | 16.00         |
|                           |                     | 44      | 5220            | 13.00         | 13.00         | 16.00         |
|                           |                     | 48      | 5240            | 13.00         | 13.00         | 16.00         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 13.00         | 13.00         | 16.00         |
|                           |                     | 40      | 5200            | 13.00         | 13.00         | 16.00         |
|                           |                     | 44      | 5220            | 13.00         | 13.00         | 16.00         |
|                           |                     | 48      | 5240            | 13.00         | 13.00         | 16.00         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 13.00         | 13.00         | 16.00         |
|                           |                     | 46      | 5230            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 13.00         | 13.00         | 16.00         |
|                           |                     | 40      | 5200            | 13.00         | 13.00         | 16.00         |
|                           |                     | 44      | 5220            | 13.00         | 13.00         | 16.00         |
|                           |                     | 48      | 5240            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.00         | 13.00         | 16.00         |
|                           |                     | 46      | 5230            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 13.00         | 13.00         | 16.00         |
|                           |                     | 40      | 5200            | 13.00         | 13.00         | 16.00         |
|                           |                     | 44      | 5220            | 13.00         | 13.00         | 16.00         |
|                           |                     | 48      | 5240            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 13.00         | 13.00         | 16.00         |
|                           |                     | 46      | 5230            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 13.00         | 13.00         | 16.00         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.3GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 15.00         | 15.00         | 18.00         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.5GHz WLAN               | 802.11a 6Mbps        | 100     | 5500            | 17.50         | 17.50         | 20.50         |
|                           |                      | 116     | 5580            | 17.50         | 17.50         | 20.50         |
|                           |                      | 124     | 5620            | 17.50         | 17.50         | 20.50         |
|                           |                      | 132     | 5660            | 17.50         | 17.50         | 20.50         |
|                           |                      | 144     | 5720            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 17.50         | 17.50         | 20.50         |
|                           |                      | 116     | 5580            | 17.50         | 17.50         | 20.50         |
|                           |                      | 124     | 5620            | 17.50         | 17.50         | 20.50         |
|                           |                      | 132     | 5660            | 17.50         | 17.50         | 20.50         |
|                           |                      | 144     | 5720            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 17.50         | 17.50         | 20.50         |
|                           |                      | 126     | 5630            | 17.50         | 17.50         | 20.50         |
|                           |                      | 134     | 5670            | 17.50         | 17.50         | 20.50         |
|                           |                      | 142     | 5710            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 17.50         | 17.50         | 20.50         |
|                           |                      | 116     | 5580            | 17.50         | 17.50         | 20.50         |
|                           |                      | 124     | 5620            | 17.50         | 17.50         | 20.50         |
|                           |                      | 132     | 5660            | 17.50         | 17.50         | 20.50         |
|                           |                      | 144     | 5720            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 17.50         | 17.50         | 20.50         |
|                           |                      | 126     | 5630            | 17.50         | 17.50         | 20.50         |
|                           |                      | 134     | 5670            | 17.50         | 17.50         | 20.50         |
|                           |                      | 142     | 5710            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 17.50         | 17.50         | 20.50         |
|                           |                      | 138     | 5690            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 15.50         | 15.50         | 18.50         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 17.50         | 17.50         | 20.50         |
|                           |                      | 116     | 5580            | 17.50         | 17.50         | 20.50         |
|                           |                      | 124     | 5620            | 17.50         | 17.50         | 20.50         |
|                           |                      | 132     | 5660            | 17.50         | 17.50         | 20.50         |
|                           |                      | 144     | 5720            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 17.50         | 17.50         | 20.50         |
|                           |                      | 110     | 5550            | 17.50         | 17.50         | 20.50         |
|                           |                      | 126     | 5630            | 17.50         | 17.50         | 20.50         |
|                           |                      | 134     | 5670            | 17.50         | 17.50         | 20.50         |
|                           |                      | 142     | 5710            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 17.50         | 17.50         | 20.50         |
|                           |                      | 122     | 5610            | 17.50         | 17.50         | 20.50         |
|                           |                      | 138     | 5690            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 15.50         | 15.50         | 18.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 16.50         | 16.50         | 19.50         |
|                           |                     | 157     | 5785            | 16.50         | 16.50         | 19.50         |
|                           |                     | 165     | 5825            | 16.50         | 16.50         | 19.50         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 16.50         | 16.50         | 19.50         |
|                           |                     | 157     | 5785            | 16.50         | 16.50         | 19.50         |
|                           |                     | 165     | 5825            | 16.50         | 16.50         | 19.50         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 16.50         | 16.50         | 19.50         |
|                           |                     | 159     | 5795            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 16.50         | 16.50         | 19.50         |
|                           |                     | 157     | 5785            | 16.50         | 16.50         | 19.50         |
|                           |                     | 165     | 5825            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 16.50         | 16.50         | 19.50         |
|                           |                     | 159     | 5795            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 16.50         | 16.50         | 19.50         |
|                           |                     | 157     | 5785            | 16.50         | 16.50         | 19.50         |
|                           |                     | 165     | 5825            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 16.50         | 16.50         | 19.50         |
|                           |                     | 159     | 5795            | 16.50         | 16.50         | 19.50         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 16.50         | 16.50         | 19.50         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN<br>UNII4      | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 19.50         | 19.50         | 22.50         |

**< Power index 9 >**
**<5GHz WLAN>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.2GHz WLAN               | 802.11a 6Mbps       | 36      | 5180            | 13.00         | 13.00         | 16.00         |
|                           |                     | 40      | 5200            | 13.00         | 13.00         | 16.00         |
|                           |                     | 44      | 5220            | 13.00         | 13.00         | 16.00         |
|                           |                     | 48      | 5240            | 13.00         | 13.00         | 16.00         |
|                           | 802.11n-HT20 MCS0   | 36      | 5180            | 13.00         | 13.00         | 16.00         |
|                           |                     | 40      | 5200            | 13.00         | 13.00         | 16.00         |
|                           |                     | 44      | 5220            | 13.00         | 13.00         | 16.00         |
|                           |                     | 48      | 5240            | 13.00         | 13.00         | 16.00         |
|                           | 802.11n-HT40 MCS0   | 38      | 5190            | 13.00         | 13.00         | 16.00         |
|                           |                     | 46      | 5230            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 13.00         | 13.00         | 16.00         |
|                           |                     | 40      | 5200            | 13.00         | 13.00         | 16.00         |
|                           |                     | 44      | 5220            | 13.00         | 13.00         | 16.00         |
|                           |                     | 48      | 5240            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.00         | 13.00         | 16.00         |
|                           |                     | 46      | 5230            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ax-HE20 MCS0  | 36      | 5180            | 13.00         | 13.00         | 16.00         |
|                           |                     | 40      | 5200            | 13.00         | 13.00         | 16.00         |
|                           |                     | 44      | 5220            | 13.00         | 13.00         | 16.00         |
|                           |                     | 48      | 5240            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ax-HE40 MCS0  | 38      | 5190            | 13.00         | 13.00         | 16.00         |
|                           |                     | 46      | 5230            | 13.00         | 13.00         | 16.00         |
|                           | 802.11ax-HE80 MCS0  | 42      | 5210            | 13.00         | 13.00         | 16.00         |



| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.3GHz WLAN               | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT20 MCS0    | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT40 MCS0    | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT20 MCS0  | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT40 MCS0  | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ac-VHT80 MCS0  | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ac-VHT160 MCS0 | 50      | 5250            | 15.00         | 15.00         | 18.00         |
|                           | 802.11ax-HE20 MCS0   | 52      | 5260            | 17.50         | 17.50         | 20.50         |
|                           |                      | 56      | 5280            | 17.50         | 17.50         | 20.50         |
|                           |                      | 60      | 5300            | 17.50         | 17.50         | 20.50         |
|                           |                      | 64      | 5320            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE40 MCS0   | 54      | 5270            | 17.50         | 17.50         | 20.50         |
|                           |                      | 62      | 5310            | 17.00         | 17.00         | 20.00         |
|                           | 802.11ax-HE80 MCS0   | 58      | 5290            | 16.00         | 16.00         | 19.00         |
|                           | 802.11ax-HE160 MCS0  | 50      | 5250            | 15.00         | 15.00         | 18.00         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
|                           | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
| 5.5GHz WLAN               | 802.11a 6Mbps        | 100     | 5500            | 17.50         | 17.50         | 20.50         |
|                           |                      | 116     | 5580            | 17.50         | 17.50         | 20.50         |
|                           |                      | 124     | 5620            | 17.50         | 17.50         | 20.50         |
|                           |                      | 132     | 5660            | 17.50         | 17.50         | 20.50         |
|                           |                      | 144     | 5720            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT20 MCS0    | 100     | 5500            | 17.50         | 17.50         | 20.50         |
|                           |                      | 116     | 5580            | 17.50         | 17.50         | 20.50         |
|                           |                      | 124     | 5620            | 17.50         | 17.50         | 20.50         |
|                           |                      | 132     | 5660            | 17.50         | 17.50         | 20.50         |
|                           |                      | 144     | 5720            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT40 MCS0    | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 17.50         | 17.50         | 20.50         |
|                           |                      | 126     | 5630            | 17.50         | 17.50         | 20.50         |
|                           |                      | 134     | 5670            | 17.50         | 17.50         | 20.50         |
|                           |                      | 142     | 5710            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT20 MCS0  | 100     | 5500            | 17.50         | 17.50         | 20.50         |
|                           |                      | 116     | 5580            | 17.50         | 17.50         | 20.50         |
|                           |                      | 124     | 5620            | 17.50         | 17.50         | 20.50         |
|                           |                      | 132     | 5660            | 17.50         | 17.50         | 20.50         |
|                           |                      | 144     | 5720            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT40 MCS0  | 102     | 5510            | 15.00         | 15.00         | 18.00         |
|                           |                      | 110     | 5550            | 17.50         | 17.50         | 20.50         |
|                           |                      | 126     | 5630            | 17.50         | 17.50         | 20.50         |
|                           |                      | 134     | 5670            | 17.50         | 17.50         | 20.50         |
|                           |                      | 142     | 5710            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT80 MCS0  | 106     | 5530            | 15.50         | 15.50         | 18.50         |
|                           |                      | 122     | 5610            | 17.50         | 17.50         | 20.50         |
|                           |                      | 138     | 5690            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT160 MCS0 | 114     | 5570            | 15.50         | 15.50         | 18.50         |
|                           | 802.11ax-HE20 MCS0   | 100     | 5500            | 17.50         | 17.50         | 20.50         |
|                           |                      | 116     | 5580            | 17.50         | 17.50         | 20.50         |
|                           |                      | 124     | 5620            | 17.50         | 17.50         | 20.50         |
|                           |                      | 132     | 5660            | 17.50         | 17.50         | 20.50         |
|                           |                      | 144     | 5720            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE40 MCS0   | 102     | 5510            | 17.50         | 17.50         | 20.50         |
|                           |                      | 110     | 5550            | 17.50         | 17.50         | 20.50         |
|                           |                      | 126     | 5630            | 17.50         | 17.50         | 20.50         |
|                           |                      | 134     | 5670            | 17.50         | 17.50         | 20.50         |
|                           |                      | 142     | 5710            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE80 MCS0   | 106     | 5530            | 17.50         | 17.50         | 20.50         |
|                           |                      | 122     | 5610            | 17.50         | 17.50         | 20.50         |
|                           |                      | 138     | 5690            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE160 MCS0  | 114     | 5570            | 15.50         | 15.50         | 18.50         |

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN               | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 149     | 5745            | 17.50         | 17.50         | 20.50         |
|                           |                     | 157     | 5785            | 17.50         | 17.50         | 20.50         |
|                           |                     | 165     | 5825            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT20 MCS0   | 149     | 5745            | 17.50         | 17.50         | 20.50         |
|                           |                     | 157     | 5785            | 17.50         | 17.50         | 20.50         |
|                           |                     | 165     | 5825            | 17.50         | 17.50         | 20.50         |
|                           | 802.11n-HT40 MCS0   | 151     | 5755            | 17.50         | 17.50         | 20.50         |
|                           |                     | 159     | 5795            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT20 MCS0 | 149     | 5745            | 17.50         | 17.50         | 20.50         |
|                           |                     | 157     | 5785            | 17.50         | 17.50         | 20.50         |
|                           |                     | 165     | 5825            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT40 MCS0 | 151     | 5755            | 17.50         | 17.50         | 20.50         |
|                           |                     | 159     | 5795            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ac-VHT80 MCS0 | 155     | 5775            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE20 MCS0  | 149     | 5745            | 17.50         | 17.50         | 20.50         |
|                           |                     | 157     | 5785            | 17.50         | 17.50         | 20.50         |
|                           |                     | 165     | 5825            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE40 MCS0  | 151     | 5755            | 17.50         | 17.50         | 20.50         |
|                           |                     | 159     | 5795            | 17.50         | 17.50         | 20.50         |
|                           | 802.11ax-HE80 MCS0  | 155     | 5775            | 17.50         | 17.50         | 20.50         |

| Burst Average Power (dBm) |                      |         |                 |               |               |               |
|---------------------------|----------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                      |         |                 | MIMO Ant 4+3  |               |               |
| 5.8GHz WLAN<br>UNII4      | Mode                 | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps        | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11n-HT20 MCS0    | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11n-HT40 MCS0    | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT20 MCS0  | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT40 MCS0  | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT80 MCS0  | 171     | 5855            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ac-VHT160 MCS0 | 163     | 5815            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE20 MCS0   | 169     | 5845            | 19.50         | 19.50         | 22.50         |
|                           |                      | 173     | 5865            | 19.50         | 19.50         | 22.50         |
|                           |                      | 177     | 5885            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE40 MCS0   | 167     | 5835            | 19.50         | 19.50         | 22.50         |
|                           |                      | 175     | 5875            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE80 MCS0   | 171     | 5855            | 19.50         | 19.50         | 22.50         |
|                           | 802.11ax-HE160 MCS0  | 163     | 5815            | 19.50         | 19.50         | 22.50         |

**<6GHz WLAN Maximum Power>**
**<Mobile Condition – Power Index 0>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| WiFi 6E                   | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 1       | 5955            | 5.50          | 5.50          | 8.50          |
|                           |                     | 57      | 6235            | 5.50          | 5.50          | 8.50          |
|                           |                     | 113     | 6515            | 5.50          | 5.50          | 8.50          |
|                           |                     | 173     | 6815            | 5.50          | 5.50          | 8.50          |
|                           | 802.11ax-HE20 MCS0  | 1       | 5955            | 6.00          | 6.00          | 9.00          |
|                           |                     | 57      | 6235            | 6.00          | 6.00          | 9.00          |
|                           |                     | 113     | 6515            | 7.00          | 7.00          | 10.00         |
|                           |                     | 173     | 6815            | 6.00          | 6.00          | 9.00          |
|                           | 802.11ax-HE40 MCS0  | 3       | 5965            | 10.00         | 10.00         | 13.00         |
|                           |                     | 59      | 6245            | 10.00         | 10.00         | 13.00         |
|                           |                     | 107     | 6485            | 10.00         | 10.00         | 13.00         |
|                           |                     | 171     | 6805            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE80 MCS0  | 227     | 7085            | 9.50          | 9.50          | 12.50         |
|                           |                     | 7       | 5985            | 12.50         | 12.50         | 15.50         |
|                           |                     | 71      | 6305            | 12.50         | 12.50         | 15.50         |
|                           |                     | 119     | 6545            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE160 MCS0 | 167     | 6785            | 11.50         | 11.50         | 14.50         |
|                           |                     | 215     | 7025            | 12.00         | 12.00         | 15.00         |
|                           |                     | 15      | 6025            | 15.00         | 15.00         | 18.00         |
|                           |                     | 47      | 6185            | 15.00         | 15.00         | 18.00         |
|                           |                     | 111     | 6505            | 15.50         | 15.50         | 18.50         |
|                           |                     | 175     | 6825            | 14.00         | 14.00         | 17.00         |
|                           |                     | 207     | 6985            | 15.00         | 15.00         | 18.00         |
|                           |                     |         |                 |               |               |               |

**<Power Index 1 / Power Index 2 >**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| WiFi 6E                   | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 1       | 5955            | 5.50          | 5.50          | 8.50          |
|                           |                     | 57      | 6235            | 5.50          | 5.50          | 8.50          |
|                           |                     | 113     | 6515            | 5.50          | 5.50          | 8.50          |
|                           |                     | 173     | 6815            | 5.50          | 5.50          | 8.50          |
|                           | 802.11ax-HE20 MCS0  | 1       | 5955            | 6.00          | 6.00          | 9.00          |
|                           |                     | 57      | 6235            | 6.00          | 6.00          | 9.00          |
|                           |                     | 113     | 6515            | 7.00          | 7.00          | 10.00         |
|                           |                     | 173     | 6815            | 6.00          | 6.00          | 9.00          |
|                           | 802.11ax-HE40 MCS0  | 3       | 5965            | 10.00         | 10.00         | 13.00         |
|                           |                     | 59      | 6245            | 10.00         | 10.00         | 13.00         |
|                           |                     | 107     | 6485            | 10.00         | 10.00         | 13.00         |
|                           |                     | 171     | 6805            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE80 MCS0  | 227     | 7085            | 9.50          | 9.50          | 12.50         |
|                           |                     | 7       | 5985            | 12.50         | 12.50         | 15.50         |
|                           |                     | 71      | 6305            | 12.50         | 12.50         | 15.50         |
|                           |                     | 119     | 6545            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE160 MCS0 | 167     | 6785            | 11.50         | 11.50         | 14.50         |
|                           |                     | 215     | 7025            | 12.00         | 12.00         | 15.00         |
|                           |                     | 15      | 6025            | 15.00         | 15.00         | 18.00         |
|                           |                     | 47      | 6185            | 15.00         | 15.00         | 18.00         |
|                           |                     | 111     | 6505            | 13.00         | 13.00         | 16.00         |
|                           |                     | 175     | 6825            | 11.50         | 11.50         | 14.50         |
|                           |                     | 207     | 6985            | 15.00         | 15.00         | 18.00         |

**<Power Index 3 / Power Index 4 >**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| WiFi 6E                   | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 1       | 5955            | 5.50          | 5.50          | 8.50          |
|                           |                     | 57      | 6235            | 5.50          | 5.50          | 8.50          |
|                           |                     | 113     | 6515            | 5.50          | 5.50          | 8.50          |
|                           |                     | 173     | 6815            | 5.50          | 5.50          | 8.50          |
|                           | 802.11ax-HE20 MCS0  | 1       | 5955            | 6.00          | 6.00          | 9.00          |
|                           |                     | 57      | 6235            | 6.00          | 6.00          | 9.00          |
|                           |                     | 113     | 6515            | 7.00          | 7.00          | 10.00         |
|                           |                     | 173     | 6815            | 6.00          | 6.00          | 9.00          |
|                           | 802.11ax-HE40 MCS0  | 3       | 5965            | 10.00         | 10.00         | 13.00         |
|                           |                     | 59      | 6245            | 10.00         | 10.00         | 13.00         |
|                           |                     | 107     | 6485            | 10.00         | 10.00         | 13.00         |
|                           |                     | 171     | 6805            | 10.00         | 10.00         | 13.00         |
|                           | 802.11ax-HE80 MCS0  | 227     | 7085            | 9.50          | 9.50          | 12.50         |
|                           |                     | 7       | 5985            | 12.50         | 12.50         | 15.50         |
|                           |                     | 71      | 6305            | 12.50         | 12.50         | 15.50         |
|                           |                     | 119     | 6545            | 12.50         | 12.50         | 15.50         |
|                           | 802.11ax-HE160 MCS0 | 167     | 6785            | 11.50         | 11.50         | 14.50         |
|                           |                     | 215     | 7025            | 12.00         | 12.00         | 15.00         |
|                           |                     | 15      | 6025            | 14.00         | 14.00         | 17.00         |
|                           |                     | 47      | 6185            | 14.00         | 14.00         | 17.00         |
|                           | 802.11ax-HE160 MCS0 | 111     | 6505            | 13.00         | 13.00         | 16.00         |
|                           |                     | 175     | 6825            | 11.50         | 11.50         | 14.50         |
|                           |                     | 207     | 6985            | 13.50         | 13.50         | 16.50         |
|                           |                     |         |                 |               |               |               |

**<Power Index 5/ Power Index 6 /Power Index 7/ Power Index 8 / Power Index 9>**

| Burst Average Power (dBm) |                     |         |                 |               |               |               |
|---------------------------|---------------------|---------|-----------------|---------------|---------------|---------------|
| Transmit Antenna          |                     |         |                 | MIMO Ant 4+3  |               |               |
| WiFi 6E                   | Mode                | Channel | Frequency (MHz) | Tune-Up Limit | Tune-Up Limit | Tune-Up Limit |
|                           | 802.11a 6Mbps       | 1       | 5955            | 5.50          | 5.50          | 8.50          |
|                           |                     | 57      | 6235            | 5.50          | 5.50          | 8.50          |
|                           |                     | 113     | 6515            | 5.50          | 5.50          | 8.50          |
|                           |                     | 173     | 6815            | 5.50          | 5.50          | 8.50          |
|                           | 802.11ax-HE20 MCS0  | 1       | 5955            | 6.00          | 6.00          | 9.00          |
|                           |                     | 57      | 6235            | 6.00          | 6.00          | 9.00          |
|                           |                     | 113     | 6515            | 7.00          | 7.00          | 10.00         |
|                           |                     | 173     | 6815            | 6.00          | 6.00          | 9.00          |
|                           | 802.11ax-HE40 MCS0  | 3       | 5965            | 10.00         | 10.00         | 13.00         |
|                           |                     | 59      | 6245            | 10.00         | 10.00         | 13.00         |
|                           |                     | 107     | 6485            | 10.00         | 10.00         | 13.00         |
|                           |                     | 171     | 6805            | 10.00         | 10.00         | 13.00         |
|                           |                     | 227     | 7085            | 9.50          | 9.50          | 12.50         |
|                           | 802.11ax-HE80 MCS0  | 7       | 5985            | 12.50         | 12.50         | 15.50         |
|                           |                     | 71      | 6305            | 12.50         | 12.50         | 15.50         |
|                           |                     | 119     | 6545            | 12.50         | 12.50         | 15.50         |
|                           |                     | 167     | 6785            | 11.50         | 11.50         | 14.50         |
|                           |                     | 215     | 7025            | 12.00         | 12.00         | 15.00         |
|                           | 802.11ax-HE160 MCS0 | 15      | 6025            | 13.50         | 13.50         | 16.50         |
|                           |                     | 47      | 6185            | 13.50         | 13.50         | 16.50         |
|                           |                     | 111     | 6505            | 13.50         | 13.50         | 16.50         |
|                           |                     | 175     | 6825            | 13.00         | 13.00         | 16.00         |
|                           |                     | 207     | 6985            | 15.00         | 15.00         | 18.00         |

**<Bluetooth Maximum Power>**
**General Note:**

1. The device implements the power management for Bluetooth SAR compliance for different exposure conditions and user cases. When the device is operated against the user's head, power index 1 is used; when the device is operated in the body-worn / hotspot / extremity condition, power index 2-4 are used. In each exposure condition, the power selection is determined by the user cases as tested in Section 15 of this report. Full details about the proprietary power management decision are illustrated in the operational description.
2. 4+3(4): power level on antenna 4, when device operated in MIMO mode (4+3)

**< Mobile condition – Power Index 0 >**

| Mode          | Burst Average Power (dBm) |       |       |       |       |
|---------------|---------------------------|-------|-------|-------|-------|
|               | Ant 4                     |       |       | Ant 4 |       |
|               | BR / EDR                  |       |       | LE    |       |
|               | 1Mbps                     | 2Mbps | 3Mbps | 1Mbps | 2Mbps |
| Tune-up Limit | 20                        | 18.5  | 18.5  | 20    | 20    |

| Mode          | Burst Average Power (dBm) |       |       |       |       |
|---------------|---------------------------|-------|-------|-------|-------|
|               | Ant 3                     |       |       | Ant 3 |       |
|               | BR / EDR                  |       |       | LE    |       |
|               | 1Mbps                     | 2Mbps | 3Mbps | 1Mbps | 2Mbps |
| Tune-up Limit | 20                        | 18.5  | 18.5  | 20    | 20    |

| Mode          | BR / EDR | Burst Average Power (dBm) |            |         |            |            |         |            |            |         |
|---------------|----------|---------------------------|------------|---------|------------|------------|---------|------------|------------|---------|
|               |          | 1Mbps                     |            |         | 2Mbps      |            |         | 3Mbps      |            |         |
|               |          | Ant 4+3(4)                | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 |
| Tune-up Limit |          | 18.5                      | 18.5       | 21.5    | 15.5       | 15.5       | 18.5    | 15.5       | 15.5       | 18.5    |

| Mode          | LE | Burst Average Power (dBm) |            |         |            |            |         |         |
|---------------|----|---------------------------|------------|---------|------------|------------|---------|---------|
|               |    | 1Mbps                     |            |         | 2Mbps      |            |         |         |
|               |    | Ant 4+3(4)                | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 | Ant 4+3 |
| Tune-up Limit |    | 18.5                      | 18.5       | 21.5    | 18.5       | 18.5       | 21.5    | 21.5    |

**<Power Index 1>**

| Mode          | Burst Average Power (dBm) |       |       |       |       |
|---------------|---------------------------|-------|-------|-------|-------|
|               | Ant 4                     |       |       | Ant 4 |       |
|               | BR / EDR                  |       |       | LE    |       |
|               | 1Mbps                     | 2Mbps | 3Mbps | 1Mbps | 2Mbps |
| Tune-up Limit | 12                        | 12    | 12    | 12    | 12    |

| Mode          | Burst Average Power (dBm) |       |       |       |       |
|---------------|---------------------------|-------|-------|-------|-------|
|               | Ant 3                     |       |       | Ant 3 |       |
|               | BR / EDR                  |       |       | LE    |       |
|               | 1Mbps                     | 2Mbps | 3Mbps | 1Mbps | 2Mbps |
| Tune-up Limit | 12                        | 12    | 12    | 12    | 12    |

| Mode          | BR / EDR | Burst Average Power (dBm) |            |         |            |            |         |            |            |         |
|---------------|----------|---------------------------|------------|---------|------------|------------|---------|------------|------------|---------|
|               |          | 1Mbps                     |            |         | 2Mbps      |            |         | 3Mbps      |            |         |
|               |          | Ant 4+3(4)                | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 |
| Tune-up Limit |          | 12                        | 12         | 15      | 12         | 12         | 15      | 12         | 12         | 15      |

| Mode          | LE | Burst Average Power (dBm) |            |         |            |            |         |         |
|---------------|----|---------------------------|------------|---------|------------|------------|---------|---------|
|               |    | 1Mbps                     |            |         | 2Mbps      |            |         |         |
|               |    | Ant 4+3(4)                | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 | Ant 4+3 |
| Tune-up Limit |    | 12                        | 12         | 15      | 12         | 12         | 15      | 15      |

**<Power Index 2 / Power Index 3>**

| Mode          | Burst Average Power (dBm) |       |       |       |       |
|---------------|---------------------------|-------|-------|-------|-------|
|               | Ant 4                     |       |       | Ant 4 |       |
|               | BR / EDR                  |       |       | LE    |       |
|               | 1Mbps                     | 2Mbps | 3Mbps | 1Mbps | 2Mbps |
| Tune-up Limit | 20                        | 18.5  | 18.5  | 20    | 20    |

| Mode          | Burst Average Power (dBm) |       |       |       |       |
|---------------|---------------------------|-------|-------|-------|-------|
|               | Ant 3                     |       |       | Ant 3 |       |
|               | BR / EDR                  |       |       | LE    |       |
|               | 1Mbps                     | 2Mbps | 3Mbps | 1Mbps | 2Mbps |
| Tune-up Limit | 20                        | 18.5  | 18.5  | 20    | 20    |

| Mode          | BR / EDR | Burst Average Power (dBm) |            |         |            |            |         |            |            |         |
|---------------|----------|---------------------------|------------|---------|------------|------------|---------|------------|------------|---------|
|               |          | 1Mbps                     |            |         | 2Mbps      |            |         | 3Mbps      |            |         |
|               |          | Ant 4+3(4)                | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 |
| Tune-up Limit |          | 18.5                      | 18.5       | 21.5    | 15.5       | 15.5       | 18.5    | 15.5       | 15.5       | 18.5    |

| Mode          | LE | Burst Average Power (dBm) |            |         |            |            |         |         |         |
|---------------|----|---------------------------|------------|---------|------------|------------|---------|---------|---------|
|               |    | 1Mbps                     |            |         |            | 2Mbps      |         |         |         |
|               |    | Ant 4+3(4)                | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 | Ant 4+3 | Ant 4+3 |
| Tune-up Limit |    | 18.5                      | 18.5       | 21.5    | 18.5       | 18.5       | 21.5    |         |         |

**<Power Index 4>**

| Mode          | Burst Average Power (dBm) |       |       |       |       |
|---------------|---------------------------|-------|-------|-------|-------|
|               | Ant 4                     |       |       | Ant 4 |       |
|               | BR / EDR                  |       |       | LE    |       |
|               | 1Mbps                     | 2Mbps | 3Mbps | 1Mbps | 2Mbps |
| Tune-up Limit | 17                        | 17    | 17    | 17    | 17    |

| Mode          | Burst Average Power (dBm) |       |       |       |       |
|---------------|---------------------------|-------|-------|-------|-------|
|               | Ant 3                     |       |       | Ant 3 |       |
|               | BR / EDR                  |       |       | LE    |       |
|               | 1Mbps                     | 2Mbps | 3Mbps | 1Mbps | 2Mbps |
| Tune-up Limit | 17                        | 17    | 17    | 17    | 17    |

| Mode          | BR / EDR | Burst Average Power (dBm) |            |         |            |            |         |            |            |         |
|---------------|----------|---------------------------|------------|---------|------------|------------|---------|------------|------------|---------|
|               |          | 1Mbps                     |            |         | 2Mbps      |            |         | 3Mbps      |            |         |
|               |          | Ant 4+3(4)                | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 |
| Tune-up Limit |          | 17                        | 17         | 20      | 15.5       | 15.5       | 18.5    | 15.5       | 15.5       | 18.5    |

| Mode          | LE | Burst Average Power (dBm) |            |         |            |            |         |         |         |
|---------------|----|---------------------------|------------|---------|------------|------------|---------|---------|---------|
|               |    | 1Mbps                     |            |         |            | 2Mbps      |         |         |         |
|               |    | Ant 4+3(4)                | Ant 4+3(3) | Ant 4+3 | Ant 4+3(4) | Ant 4+3(3) | Ant 4+3 | Ant 4+3 | Ant 4+3 |
| Tune-up Limit |    | 17                        | 17         | 20      | 17         | 17         | 20      |         |         |

## 2.3 General LTE SAR Test and Reporting Considerations

| Summarized necessary items addressed in KDB 941225 D05 v02r05 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                               |         |       |        |        |          |     |
|---------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------|-------|--------|--------|----------|-----|
| FCC ID                                                        |  | A4RGQML3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |         |       |        |        |          |     |
| Equipment Name                                                |  | PHONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                               |         |       |        |        |          |     |
| Operating Frequency Range of each LTE transmission band       |  | LTE Band 2: 1850 MHz ~ 1910 MHz<br>LTE Band 4: 1710 MHz ~ 1755 MHz<br>LTE Band 5: 824 MHz ~ 849 MHz<br>LTE Band 7: 2500 MHz ~ 2570 MHz<br>LTE Band 12: 699 MHz ~ 716 MHz<br>LTE Band 13: 777 MHz ~ 787 MHz<br>LTE Band 14: 788 MHz ~ 798 MHz<br>LTE Band 17: 704 MHz ~ 716 MHz<br>LTE Band 25: 1850 MHz ~ 1915 MHz<br>LTE Band 26: 814 MHz ~ 849 MHz<br>LTE Band 30: 2305 MHz ~ 2315 MHz<br>LTE Band 38: 2570 MHz ~ 2620 MHz<br>LTE Band 41: 2496 MHz ~ 2690 MHz<br>LTE Band 48: 3550 MHz ~ 3700 MHz<br>LTE Band 66: 1710 MHz ~ 1780 MHz<br>LTE Band 71: 663 MHz ~ 698 MHz                                                                                                               |                                                               |         |       |        |        |          |     |
| Channel Bandwidth                                             |  | LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz<br>LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz<br>LTE Band 13: 5MHz, 10MHz<br>LTE Band 14: 5MHz, 10MHz<br>LTE Band 17: 5MHz, 10MHz<br>LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz<br>LTE Band 30: 5MHz, 10MHz<br>LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz |                                                               |         |       |        |        |          |     |
| uplink modulations used                                       |  | QPSK / 16QAM / 64QAM / 256QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                               |         |       |        |        |          |     |
| LTE Voice / Data requirements                                 |  | Voice and Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |         |       |        |        |          |     |
| LTE MPR permanently built-in by design                        |  | Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |         |       |        |        |          |     |
|                                                               |  | Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> ) |         |       |        |        | MPR (dB) |     |
|                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.4 MHz                                                       | 3.0 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz   |     |
|                                                               |  | QPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | > 5                                                           | > 4     | > 8   | > 12   | > 16   | > 18     | ≤ 1 |
|                                                               |  | 16 QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 5                                                           | ≤ 4     | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18     | ≤ 1 |
|                                                               |  | 16 QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | > 5                                                           | > 4     | > 8   | > 12   | > 16   | > 18     | ≤ 2 |
|                                                               |  | 64 QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 5                                                           | ≤ 4     | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18     | ≤ 2 |
|                                                               |  | 64 QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | > 5                                                           | > 4     | > 8   | > 12   | > 16   | > 18     | ≤ 3 |
|                                                               |  | 256 QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |         |       |        | ≥ 1    | ≤ 5      |     |
| LTE A-MPR                                                     |  | In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                               |         |       |        |        |          |     |
| Spectrum plots for RB configuration                           |  | A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                               |         |       |        |        |          |     |
| Power reduction applied to satisfy SAR compliance             |  | The device has several different power modes for each exposure conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios. Detail refer to operational description.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                               |         |       |        |        |          |     |
| LTE Carrier Aggregation Combinations                          |  | Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                               |         |       |        |        |          |     |
| LTE Carrier Aggregation Additional Information                |  | This device supports 2 carriers in the uplink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |         |       |        |        |          |     |

| Transmission (H, M, L) channel numbers and frequencies in each LTE band |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|-------------------------------------------------------------------------|-------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
| LTE Band 2                                                              |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |
|                                                                         | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L                                                                       | 18607             | 1850.7      | 18615            | 1851.5      | 18625            | 1852.5      | 18650            | 1855        | 18675            | 1857.5      | 18700            | 1860        |
| M                                                                       | 18900             | 1880        | 18900            | 1880        | 18900            | 1880        | 18900            | 1880        | 18900            | 1880        | 18900            | 1880        |
| H                                                                       | 19193             | 1909.3      | 19185            | 1908.5      | 19175            | 1907.5      | 19150            | 1905        | 19125            | 1902.5      | 19100            | 1900        |
| LTE Band 4                                                              |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |
|                                                                         | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L                                                                       | 19957             | 1710.7      | 19965            | 1711.5      | 19975            | 1712.5      | 20000            | 1715        | 20025            | 1717.5      | 20050            | 1720        |
| M                                                                       | 20175             | 1732.5      | 20175            | 1732.5      | 20175            | 1732.5      | 20175            | 1732.5      | 20175            | 1732.5      | 20175            | 1732.5      |
| H                                                                       | 20393             | 1754.3      | 20385            | 1753.5      | 20375            | 1752.5      | 20350            | 1750        | 20325            | 1747.5      | 20300            | 1745        |
| LTE Band 5                                                              |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             |                  |             |                  |             |
|                                                                         | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L                                                                       | 20407             | 824.7       | 20415            | 825.5       | 20425            | 826.5       | 20450            | 829         | 20450            | 829         | 20450            | 829         |
| M                                                                       | 20525             | 836.5       | 20525            | 836.5       | 20525            | 836.5       | 20525            | 836.5       | 20525            | 836.5       | 20525            | 836.5       |
| H                                                                       | 20643             | 848.3       | 20635            | 847.5       | 20625            | 846.5       | 20600            | 844         | 20600            | 844         | 20600            | 844         |
| LTE Band 7                                                              |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |                  |             |                  |             |
|                                                                         | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L                                                                       | 20775             | 2502.5      | 20800            | 2505        | 20825            | 2507.5      | 20850            | 2510        | 20850            | 2510        | 20850            | 2510        |
| M                                                                       | 21100             | 2535        | 21100            | 2535        | 21100            | 2535        | 21100            | 2535        | 21100            | 2535        | 21100            | 2535        |
| H                                                                       | 21425             | 2567.5      | 21400            | 2565        | 21375            | 2562.5      | 21350            | 2560        | 21350            | 2560        | 21350            | 2560        |
| LTE Band 12                                                             |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             |                  |             |                  |             |
|                                                                         | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L                                                                       | 23017             | 699.7       | 23025            | 700.5       | 23035            | 701.5       | 23060            | 704         | 23060            | 704         | 23060            | 704         |
| M                                                                       | 23095             | 707.5       | 23095            | 707.5       | 23095            | 707.5       | 23095            | 707.5       | 23095            | 707.5       | 23095            | 707.5       |
| H                                                                       | 23173             | 715.3       | 23165            | 714.5       | 23155            | 713.5       | 23130            | 711         | 23130            | 711         | 23130            | 711         |
| LTE Band 13                                                             |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 5 MHz   |             |                  |             | Bandwidth 10 MHz |             |                  |             |                  |             |                  |             |
|                                                                         | Channel #         |             | Freq.(MHz)       |             | Channel #        |             |                  |             | Freq.(MHz)       |             |                  |             |
| L                                                                       | 23205             |             | 779.5            |             | 23230            |             |                  |             | 782              |             |                  |             |
| M                                                                       | 23230             |             | 782              |             |                  |             |                  |             |                  |             |                  |             |
| H                                                                       | 23255             |             | 784.5            |             |                  |             |                  |             |                  |             |                  |             |
| LTE Band 14                                                             |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 5 MHz   |             |                  |             | Bandwidth 10 MHz |             |                  |             |                  |             |                  |             |
|                                                                         | Channel #         |             | Channel #        |             | Channel #        |             |                  |             | Freq.(MHz)       |             |                  |             |
| L                                                                       | 23305             |             | 790.5            |             | 23330            |             |                  |             | 793              |             |                  |             |
| M                                                                       | 23330             |             | 793              |             |                  |             |                  |             |                  |             |                  |             |
| H                                                                       | 23355             |             | 795.5            |             |                  |             |                  |             |                  |             |                  |             |
| LTE Band 17                                                             |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 5 MHz   |             |                  |             | Bandwidth 10 MHz |             |                  |             |                  |             |                  |             |
|                                                                         | Channel #         |             | Freq.(MHz)       |             | Channel #        |             |                  |             | Freq. (MHz)      |             |                  |             |
| L                                                                       | 23755             |             | 706.5            |             | 23780            |             |                  |             | 709              |             |                  |             |
| M                                                                       | 23790             |             | 710              |             | 23790            |             |                  |             | 710              |             |                  |             |
| H                                                                       | 23825             |             | 713.5            |             | 23800            |             |                  |             | 711              |             |                  |             |

| LTE Band 25 |                   |             |                  |             |                  |                  |                  |             |                  |             |                  |             |
|-------------|-------------------|-------------|------------------|-------------|------------------|------------------|------------------|-------------|------------------|-------------|------------------|-------------|
|             | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |                  | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz)      | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 26047             | 1850.7      | 26055            | 1851.5      | 26065            | 1852.5           | 26090            | 1855        | 26115            | 1857.5      | 26140            | 1860        |
| M           | 26340             | 1880        | 26340            | 1880        | 26340            | 1880             | 26340            | 1880        | 26340            | 1880        | 26340            | 1880        |
| H           | 26683             | 1914.3      | 26675            | 1913.5      | 26665            | 1912.5           | 26640            | 1910        | 26615            | 1907.5      | 26590            | 1905        |
| LTE Band 26 |                   |             |                  |             |                  |                  |                  |             |                  |             |                  |             |
|             | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |                  | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz)      | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 26697             | 814.7       | 26705            | 815.5       | 26715            | 816.5            | 26740            | 819         | 26765            | 821.5       |                  |             |
| M           | 26865             | 831.5       | 26865            | 831.5       | 26865            | 831.5            | 26865            | 831.5       | 26865            | 831.5       |                  |             |
| H           | 27033             | 848.3       | 27025            | 847.5       | 27015            | 846.5            | 26990            | 844         | 26965            | 841.5       |                  |             |
| LTE Band 30 |                   |             |                  |             |                  |                  |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             |                  |             |                  | Bandwidth 10 MHz |                  |             |                  |             |                  |             |
|             | Channel #         |             |                  | Freq.(MHz)  |                  | Channel #        |                  |             |                  | Freq.(MHz)  |                  |             |
|             | 27685             |             |                  | 2307.5      |                  | 27710            |                  |             |                  | 2310        |                  |             |
|             | 27710             |             |                  | 2310        |                  |                  |                  |             |                  |             |                  |             |
| 27735       |                   |             | 2312.5           |             |                  |                  |                  |             |                  |             |                  |             |
| LTE Band 38 |                   |             |                  |             |                  |                  |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |                  | Bandwidth 20 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz)      | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 37775             | 2572.5      | 37800            | 2575        | 37825            | 2577.5           | 37850            | 2580        |                  |             |                  |             |
| M           | 38000             | 2595        | 38000            | 2595        | 38000            | 2595             | 38000            | 2595        |                  |             |                  |             |
| H           | 38225             | 2617.5      | 38200            | 2615        | 38175            | 2612.5           | 38150            | 2610        |                  |             |                  |             |
| LTE Band 41 |                   |             |                  |             |                  |                  |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |                  | Bandwidth 20 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz)      | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 39675             | 2498.5      | 39700            | 2501        | 39725            | 2503.5           | 39750            | 2506        |                  |             |                  |             |
| L<br>M      | 40148             | 2545.8      | 40160            | 2547        | 40173            | 2548.3           | 40185            | 2549.5      |                  |             |                  |             |
|             | 40620             | 2593        | 40620            | 2593        | 40620            | 2593             | 40620            | 2593        |                  |             |                  |             |
| H<br>M      | 41093             | 2640.3      | 41080            | 2639        | 41068            | 2637.8           | 41055            | 2636.5      |                  |             |                  |             |
| H           | 41565             | 2687.5      | 41540            | 2685        | 41515            | 2682.5           | 41490            | 2680        |                  |             |                  |             |
| LTE Band 48 |                   |             |                  |             |                  |                  |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |                  | Bandwidth 20 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz)      | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 55265             | 3552.5      | 55290            | 3555        | 55315            | 3557.5           | 55340            | 3560        |                  |             |                  |             |
| L<br>M      | 55810             | 3607        | 55815            | 3607.5      | 55820            | 3608             | 55830            | 3609        |                  |             |                  |             |
|             | 56170             | 3643        | 56165            | 3642.5      | 56160            | 3642             | 56150            | 3641        |                  |             |                  |             |
| H           | 56715             | 3697.5      | 56690            | 3695        | 56665            | 3692.5           | 56640            | 3690        |                  |             |                  |             |
| LTE Band 66 |                   |             |                  |             |                  |                  |                  |             |                  |             |                  |             |
|             | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |                  | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz)      | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 131979            | 1710.7      | 131987           | 1711.5      | 131997           | 1712.5           | 132022           | 1715        | 132047           | 1717.5      | 132072           | 1720        |
| M           | 132322            | 1745        | 132322           | 1745        | 132322           | 1745             | 132322           | 1745        | 132322           | 1745        | 132322           | 1745        |
| H           | 132665            | 1779.3      | 132657           | 1778.5      | 132647           | 1777.5           | 132622           | 1775        | 132597           | 1772.5      | 132572           | 1770        |
| LTE Band 71 |                   |             |                  |             |                  |                  |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |                  | Bandwidth 20 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz)      | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 133147            | 665.5       | 133172           | 668         | 133197           | 670.5            | 133222           | 673         |                  |             |                  |             |
| M           | 133297            | 680.5       | 133297           | 680.5       | 133297           | 680.5            | 133297           | 680.5       |                  |             |                  |             |
| H           | 133447            | 695.5       | 133422           | 693         | 133397           | 690.5            | 133372           | 688         |                  |             |                  |             |



## 2.4 General 5G NR SAR Test and Reporting Considerations

| 5G NR Information                                         |                                                                                                 |             |                 |             |                 |             |                 |             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| FCC ID                                                    | A4RGQML3                                                                                        |             |                 |             |                 |             |                 |             |
| Equipment Name                                            | Phone                                                                                           |             |                 |             |                 |             |                 |             |
| Operating Frequency Range of each 5G NR transmission band | 5G NR n2: 1850 MHz ~ 1910 MHz                                                                   |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n5: 824 MHz ~ 849 MHz                                                                     |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n7: 2500 MHz ~ 2570 MHz                                                                   |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n12: 699 MHz ~ 716 MHz                                                                    |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n14 : 788 MHz ~ 798 MHz                                                                   |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n25: 1850 MHz ~ 1915 MHz                                                                  |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n30 : 2305 MHz ~ 2315 MHz                                                                 |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n38 : 2570 MHz ~ 2620 MHz                                                                 |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n41: 2496 MHz ~ 2690 MHz                                                                  |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n48 : 3550 MHz ~ 3700 MHz                                                                 |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n66: 1710 MHz ~ 1780 MHz                                                                  |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n71: 663 MHz ~ 698 MHz                                                                    |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz                                               |             |                 |             |                 |             |                 |             |
| Channel Bandwidth                                         | 5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz                                                             |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz                                                             |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz                                |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n12: 5MHz, 10MHz, 15MHz                                                                   |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n14: 5MHz, 10MHz                                                                          |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz 30MHz, 40MHz                                       |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n30: 5MHz, 10MHz                                                                          |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n38: 10MHz, 15MHz, 20MHz                                                                  |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz                |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n48: 10MHz , 15MHz, 20MHz,40MHz                                                           |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz,30MHz, 40MHz                                       |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz                                                            |             |                 |             |                 |             |                 |             |
|                                                           | 5G NR n77: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz |             |                 |             |                 |             |                 |             |
| SCS                                                       | FDD: SCS15KHz, TDD: SCS30KHz                                                                    |             |                 |             |                 |             |                 |             |
| uplink modulations used                                   | DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM<br>CP-OFDM QPSK / 16QAM / 64QAM / 256QAM  |             |                 |             |                 |             |                 |             |
| A-MPR (Additional MPR) disabled for SAR Testing?          | Yes                                                                                             |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n2                                   | LTE B2/4/5/7/12/13/14/30/48/66/71                                                               |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n5                                   | LTE B2/7/30/48/66                                                                               |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n7                                   | LTE B2/5/12/13/48/71                                                                            |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n12                                  | LTE B2/66                                                                                       |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n25                                  | LTE B2/12/13/26/48/66                                                                           |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n30                                  | LTE B2/5/12/14/66                                                                               |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n38                                  | LTE B2/4/5/12/66/71                                                                             |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n41                                  | LTE B2/4/5/12/25/26/66/71                                                                       |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n48                                  | LTE B2/5/13/66/71                                                                               |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n66                                  | LTE B2/5/7/12/13/14/30/48/66/71                                                                 |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n71                                  | LTE B2/7/48/66                                                                                  |             |                 |             |                 |             |                 |             |
| LTE Anchor Bands for n77                                  | LTE B2/5/7/12/13/14/41/66                                                                       |             |                 |             |                 |             |                 |             |
| NR Band 2                                                 |                                                                                                 |             |                 |             |                 |             |                 |             |
|                                                           | Bandwidth 5MHz                                                                                  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|                                                           | Ch. #                                                                                           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                         | 370500                                                                                          | 1852.5      | 371000          | 1855        | 371500          | 1857.5      | 372000          | 1860        |
| M                                                         | 376000                                                                                          | 1880        | 376000          | 1880        | 376000          | 1880        | 376000          | 1880        |
| H                                                         | 381500                                                                                          | 1907.5      | 381000          | 1905        | 380500          | 1902.5      | 380000          | 1900        |
| NR Band 5                                                 |                                                                                                 |             |                 |             |                 |             |                 |             |
|                                                           | Bandwidth 5MHz                                                                                  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|                                                           | Ch. #                                                                                           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                         | 165300                                                                                          | 826.5       | 165800          | 829         | 166300          | 831.5       | 166800          | 834         |
| M                                                         | 167300                                                                                          | 836.5       | 167300          | 836.5       | 167300          | 836.5       | 167300          | 836.5       |
| H                                                         | 169300                                                                                          | 846.5       | 168800          | 844         | 168300          | 841.5       | 167800          | 839         |



| NR Band 7  |                 |             |                 |                 |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|------------|-----------------|-------------|-----------------|-----------------|-----------------|-------------|-----------------|-------------|-----------------|-----------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
|            | Bandwidth 5MHz  |             | Bandwidth 10MHz |                 | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |                 | Bandwidth 30MHz |             | Bandwidth 40MHz |             | Bandwidth 50MHz |             |                 |             |                 |             |
|            | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz)     | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz)     | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |                 |             |                 |             |
| L          | 500500          | 2502.5      | 501000          | 2505            | 501500          | 2507.5      | 502000          | 2510        | 502500          | 2512.5          | 503000          | 2515        | 504000          | 2520        | 505000          | 2525        |                 |             |                 |             |
| M          | 507000          | 2535        | 507000          | 2535            | 507000          | 2535        | 507000          | 2535        | 507000          | 2535            | 507000          | 2535        | 507000          | 2535        | 507000          | 2535        |                 |             |                 |             |
| H          | 513500          | 2567.5      | 513000          | 2565            | 512500          | 2562.5      | 512000          | 2560        | 511500          | 2557.5          | 511000          | 2555        | 510000          | 2550        | 509000          | 2545        |                 |             |                 |             |
| NR Band 12 |                 |             |                 |                 |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Bandwidth 5MHz  |             |                 |                 | Bandwidth 10MHz |             |                 |             | Bandwidth 15MHz |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Ch. #           |             | Freq. (MHz)     |                 | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |                 | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             |                 |             |                 |             |
| L          | 140300          |             | 701.5           |                 | 140800          |             | 704             |             | 141300          |                 | 706.5           |             |                 |             | 708.5           |             |                 |             |                 |             |
| M          | 141500          |             | 707.5           |                 | 141500          |             | 707.5           |             | 141500          |                 | 707.5           |             |                 |             | 707.5           |             |                 |             |                 |             |
| H          | 142700          |             | 713.5           |                 | 142200          |             | 711             |             | 141700          |                 | 708.5           |             |                 |             |                 |             |                 |             |                 |             |
| NR Band 14 |                 |             |                 |                 |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Bandwidth 5MHz  |             |                 |                 |                 |             | Bandwidth 10MHz |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Ch. #           |             |                 | Freq. (MHz)     |                 |             | Ch. #           |             |                 | Freq. (MHz)     |                 |             | Ch. #           |             |                 | Freq. (MHz) |                 |             |                 |             |
| L          | 158100          |             |                 | 790.5           |                 |             | 158600          |             |                 | 793             |                 |             |                 |             |                 |             |                 |             |                 |             |
| M          | 158600          |             |                 | 793             |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
| H          | 159100          |             |                 | 795.5           |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
| NR Band 25 |                 |             |                 |                 |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Bandwidth 5MHz  |             | Bandwidth 10MHz |                 | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |                 | Bandwidth 30MHz |             | Bandwidth 40MHz |             |                 |             |                 |             |                 |             |
|            | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz)     | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz)     | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |                 |             |                 |             |
| L          | 370500          | 1852.5      | 371000          | 1855            | 371500          | 1857.5      | 372000          | 1860        | 372500          | 1862.5          | 373000          | 1865        | 374000          | 1870        |                 |             |                 |             |                 |             |
| M          | 376500          | 1882.5      | 376500          | 1882.5          | 376500          | 1882.5      | 376500          | 1882.5      | 376500          | 1882.5          | 376500          | 1882.5      | 376500          | 1882.5      |                 |             |                 |             |                 |             |
| H          | 382500          | 1912.5      | 382000          | 1910            | 381500          | 1907.5      | 381000          | 1905        | 380500          | 1902.5          | 380000          | 1900        | 379000          | 1895        |                 |             |                 |             |                 |             |
| NR Band 30 |                 |             |                 |                 |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Bandwidth 5MHz  |             |                 |                 |                 |             | Bandwidth 10MHz |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Ch. #           |             |                 | Freq. (MHz)     |                 |             | Ch. #           |             |                 | Freq. (MHz)     |                 |             | Ch. #           |             |                 | Freq. (MHz) |                 |             |                 |             |
| L          | 461500          |             |                 | 2307.5          |                 |             | 462000          |             |                 | 2310            |                 |             |                 |             |                 |             |                 |             |                 |             |
| M          | 462000          |             |                 | 2310            |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
| H          | 462500          |             |                 | 2312.5          |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
| NR Band 38 |                 |             |                 |                 |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Bandwidth 10MHz |             |                 |                 | Bandwidth 15MHz |             |                 |             | Bandwidth 20MHz |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Ch. #           |             | Freq. (MHz)     |                 | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |                 | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             |                 |             |                 |             |
| L          | 515004          |             | 2575.02         |                 | 515502          |             | 2577.51         |             | 516000          |                 | 2580            |             |                 |             |                 |             |                 |             |                 |             |
| M          | 519000          |             | 2595            |                 | 519000          |             | 2595            |             | 519000          |                 | 2595            |             |                 |             |                 |             |                 |             |                 |             |
| H          | 522996          |             | 2614.98         |                 | 522498          |             | 2612.49         |             | 522000          |                 | 2610            |             |                 |             |                 |             |                 |             |                 |             |
| NR Band 41 |                 |             |                 |                 |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Bandwidth10MHz  |             | Bandwidth15MHz  |                 | Bandwidth20MHz  |             | Bandwidth30MHz  |             | Bandwidth 40MHz |                 | Bandwidth 50MHz |             | Bandwidth 60MHz |             | Bandwidth 80MHz |             | Bandwidth 90MHz |             | Bandwidth100MHz |             |
|            | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz)     | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz)     | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L          | 500202          | 2501.01     | 500700          | 2503.5          | 501204          | 2506.02     | 502200          | 2511        | 503202          | 2516.01         | 504204          | 2521.02     | 505200          | 2526        | 507204          | 2536.02     | 508200          | 2541        | 509202          | 2546.01     |
| M          | 518598          | 2592.99     | 518598          | 2592.99         | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99         | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     |
| H          | 537000          | 2685        | 536496          | 2682.48         | 535998          | 2679.99     | 534996          | 2674.98     | 534000          | 2670            | 532998          | 2664.99     | 531996          | 2659.98     | 529998          | 2649.99     | 528996          | 2644.98     | 528000          | 2640        |
| NR Band 48 |                 |             |                 |                 |                 |             |                 |             |                 |                 |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Bandwidth10MHz  |             |                 | Bandwidth 15MHz |                 |             | Bandwidth20MHz  |             |                 | Bandwidth 40MHz |                 |             |                 |             |                 |             |                 |             |                 |             |
|            | Ch. #           |             | Freq. (MHz)     | Ch. #           |                 | Freq. (MHz) | Ch. #           |             | Freq. (MHz)     | Ch. #           |                 | Freq. (MHz) | Ch. #           |             | Freq. (MHz)     |             |                 |             |                 |             |
| L          | 637000          |             | 3555            | 637168          |                 | 3557.52     | 637334          |             | 3560.01         | 638000          |                 | 3570        |                 |             |                 |             |                 |             |                 |             |
| M          | 641666          |             | 3624.99         | 641666          |                 | 3624.99     | 641666          |             | 3624.99         | 641666          |                 | 3624.99     |                 |             |                 |             |                 |             |                 |             |
| H          | 646332          |             | 3694.98         | 646166          |                 | 3692.49     | 646000          |             | 3690            | 645332          |                 | 3679.98     |                 |             |                 |             |                 |             |                 |             |

| NR Band 66                       |                   |                |                    |                 |                    |                |                    |                |                    |                 |                    |                |                    |                |                 |                |                 |                |                 |                |                 |                |                 |                |
|----------------------------------|-------------------|----------------|--------------------|-----------------|--------------------|----------------|--------------------|----------------|--------------------|-----------------|--------------------|----------------|--------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
|                                  | Bandwidth<br>5MHz |                | Bandwidth<br>10MHz |                 | Bandwidth<br>15MHz |                | Bandwidth<br>20MHz |                | Bandwidth<br>25MHz |                 | Bandwidth<br>30MHz |                | Bandwidth<br>40MHz |                |                 |                |                 |                |                 |                |                 |                |                 |                |
|                                  | Ch. #             | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz)  | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz)  | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) |                 |                |                 |                |                 |                |                 |                |                 |                |
| L                                | 342500            | 1712.5         | 343000             | 1715            | 343500             | 1717.5         | 344000             | 1720           | 344500             | 1722.5          | 345000             | 1725           | 346000             | 1730           |                 |                |                 |                |                 |                |                 |                |                 |                |
| M                                | 349000            | 1745           | 349000             | 1745            | 349000             | 1745           | 349000             | 1745           | 349000             | 1745            | 349000             | 1745           | 349000             | 1745           |                 |                |                 |                |                 |                |                 |                |                 |                |
| H                                | 355500            | 1777.5         | 355000             | 1775            | 354500             | 1772.5         | 354000             | 1770           | 353500             | 1767.5          | 353000             | 1765           | 352000             | 1760           |                 |                |                 |                |                 |                |                 |                |                 |                |
| NR Band 71                       |                   |                |                    |                 |                    |                |                    |                |                    |                 |                    |                |                    |                |                 |                |                 |                |                 |                |                 |                |                 |                |
|                                  | Bandwidth 5MHz    |                |                    | Bandwidth 10MHz |                    |                | Bandwidth 15MHz    |                |                    | Bandwidth 20MHz |                    |                |                    |                |                 |                |                 |                |                 |                |                 |                |                 |                |
|                                  | Ch. #             |                | Freq. (MHz)        | Ch. #           |                    | Freq. (MHz)    | Ch. #              |                | Freq. (MHz)        | Ch. #           |                    | Freq. (MHz)    | Ch. #              |                | Freq. (MHz)     |                |                 |                |                 |                |                 |                |                 |                |
| L                                | 133100            |                | 665.5              | 133600          |                    | 668            | 13410              |                | 670.5              | 134600          |                    | 673            |                    |                |                 |                |                 |                |                 |                |                 |                |                 |                |
| M                                | 136100            |                | 680.5              | 136100          |                    | 680.5          | 136100             |                | 680.5              | 136100          |                    | 680.5          |                    |                |                 |                |                 |                |                 |                |                 |                |                 |                |
| H                                | 139100            |                | 695.5              | 138600          |                    | 693            | 13810              |                | 690.5              | 137600          |                    | 688            |                    |                |                 |                |                 |                |                 |                |                 |                |                 |                |
| NR Band 77 (3450MHz ~ 3550MHz)   |                   |                |                    |                 |                    |                |                    |                |                    |                 |                    |                |                    |                |                 |                |                 |                |                 |                |                 |                |                 |                |
|                                  | Bandwidth10MHz    |                | Bandwidth15MHz     |                 | Bandwidth 20MHz    |                | Bandwidth25MHz     |                | Bandwidth30MHz     |                 | Bandwidth 40MHz    |                | Bandwidth 50MHz    |                | Bandwidth 60MHz |                | Bandwidth 70MHz |                | Bandwidth 80MHz |                | Bandwidth 90MHz |                | Bandwidth100MHz |                |
|                                  | Ch. #             | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz)  | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz)  | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) |
| L                                | 630334            | 3455.01        | 630500             | 3457.5          | 630668             | 3460.02        | 630834             | 3462.51        | 631000             | 3465            | 631334             | 3470.01        | 631668             | 3475.02        | 632000          | 3480           | 632334          | 3485.01        | 632668          | 3490.02        | 633000          | 3495           |                 |                |
| M                                | 633332            | 3499.98        | 633332             | 3499.98         | 633332             | 3499.98        | 633332             | 3499.98        | 633332             | 3499.98         | 633332             | 3499.98        | 633332             | 3499.98        | 633332          | 3499.98        | 633332          | 3499.98        | 633332          | 3499.98        | 633332          | 3499.98        | 633332          | 3499.98        |
| H                                | 636332            | 3544.98        | 636166             | 3542.49         | 636000             | 3540           | 635832             | 3537.48        | 635666             | 3534.99         | 635332             | 3529.98        | 635000             | 3525           | 634666          | 3519.99        | 634332          | 3514.98        | 634000          | 3510           | 633666          | 3504.99        |                 |                |
| NR Band 77 (3700 MHz ~ 3980 MHz) |                   |                |                    |                 |                    |                |                    |                |                    |                 |                    |                |                    |                |                 |                |                 |                |                 |                |                 |                |                 |                |
|                                  | Bandwidth10MHz    |                | Bandwidth15MHz     |                 | Bandwidth 20MHz    |                | Bandwidth25MHz     |                | Bandwidth30MHz     |                 | Bandwidth 40MHz    |                | Bandwidth 50MHz    |                | Bandwidth 60MHz |                | Bandwidth 70MHz |                | Bandwidth 80MHz |                | Bandwidth 90MHz |                | Bandwidth100MHz |                |
|                                  | Ch. #             | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz)  | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz)  | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) | Ch. #           | Freq.<br>(MHz) |
| L                                | 647000            | 3705           | 647168             | 3707.52         | 647334             | 3710.01        | 647500             | 3712.5         | 647668             | 3715.02         | 648000             | 3720           | 648334             | 3725.01        | 648668          | 3730.02        | 649000          | 3735           | 649334          | 3740.01        | 649668          | 3745.02        | 650000          | 3750           |
| M                                | 656000            | 3840           | 656000             | 3840            | 656000             | 3840           | 656000             | 3840           | 656000             | 3840            | 656000             | 3840           | 656000             | 3840           | 656000          | 3840           | 656000          | 3840           | 656000          | 3840           | 656000          | 3840           | 656000          | 3840           |
| H                                | 665000            | 3975           | 664832             | 3972.48         | 664666             | 3969.99        | 664500             | 3967.50        | 664332             | 3964.98         | 664000             | 3960           | 663666             | 3954.99        | 663332          | 3949.98        | 663000          | 3945           | 662666          | 3939.99        | 662332          | 3934.98        | 662000          | 3930           |

### **3. TAS feature for RF Exposure compliance**

The FCC RF exposure limit is based on time-averaged RF exposure. Both SAR and PD regulatory specifications are defined over certain measurement duration allowing for time-averaging. The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power for meeting system performance. Under the control of TAS algorithm, the device can transmit at high power up to Pmax for certain interval, but the average power will be maintained not exceeding the pre-defined averaged level (Plimit), and thus maintain the time-averaged RF exposure compliance

The following table shows Plimit and maximum tune up output power Pmax, for all exposure and transmit conditions (output power index).

|               |                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Pmax          | Maximum Tx power that can be transmitted physically from RFIC for a given RAT                                                                  |
| SAR_FCC_limit | SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure, and 4 W/kg averaged over 10-gram, for extremity exposure |
| PD_FCC_limit  | PD limit specified by FCC, 10 W/m <sup>2</sup> averaged over 4 cm <sup>2</sup>                                                                 |
| Plimit        | The time-averaged RF power that corresponds to SAR_target or PD_target.                                                                        |

### 3.1 SAR Characterization – Power Table

**General Note:**

1. The P<sub>limit</sub> values correspond to SAR<sub>design target</sub>.
2. GSM and WCDMA don't support time average feature of dynamic power varying, the power will be fixed at the static reduce power level at different exposure conditions for RF exposure compliance. For the GSM (TDD) P<sub>limit</sub> power levels in the table correspond to the burst average power levels which don't account for TX duty cycle.

**<P<sub>limit</sub> for supported technologies and bands (P<sub>limit</sub> corresponding to SAR design target)>**

| Wireless technology/ band<br>(No Accounting duty cycle) | Antenna | Duty cycle | Mobile condition | Head         |              | Hotspot    | Body-worn/Extremity |         | P Max Burst average power (dBm) |
|---------------------------------------------------------|---------|------------|------------------|--------------|--------------|------------|---------------------|---------|---------------------------------|
|                                                         |         |            | Standalone       | Simultaneous | Simultaneous | Standalone | Simultaneous        |         |                                 |
|                                                         |         |            | Index 1          | Index 2      | Index 3      | Index 4    | Index 5             | Index 6 |                                 |
|                                                         |         |            | P limit          |              |              |            |                     |         |                                 |
| Burst average power (dBm)                               |         |            |                  |              |              |            |                     |         |                                 |
| GSM850 GSM/GPRS 1TX                                     | 0       | 12.50%     | 32.50            | 39.80        | 38.60        | 36.10      | 37.30               | 36.10   | 32.50                           |
| GSM850 GPRS 2TX                                         | 0       | 25.00%     | 31.50            | 36.80        | 35.60        | 33.10      | 34.30               | 33.10   | 31.50                           |
| GSM850 GPRS 3TX                                         | 0       | 37.50%     | 30.50            | 35.00        | 33.80        | 31.30      | 32.50               | 31.30   | 30.50                           |
| GSM850 GPRS 4TX                                         | 0       | 50.00%     | 29.50            | 33.80        | 32.60        | 30.10      | 31.30               | 30.10   | 29.50                           |
| GSM850 EDGE 1TX                                         | 0       | 12.50%     | 27.00            | 39.80        | 38.60        | 36.10      | 37.30               | 36.10   | 27.00                           |
| GSM850 EDGE 2TX                                         | 0       | 25.00%     | 26.50            | 36.80        | 35.60        | 33.10      | 34.30               | 33.10   | 26.50                           |
| GSM850 EDGE 3TX                                         | 0       | 37.50%     | 26.50            | 35.00        | 33.80        | 31.30      | 32.50               | 31.30   | 26.50                           |
| GSM850 EDGE 4TX                                         | 0       | 50.00%     | 24.50            | 33.80        | 32.60        | 30.10      | 31.30               | 30.10   | 24.50                           |
| GSM1900 GSM/GPRS 1TX                                    | 2       | 12.50%     | 30.00            | 36.00        | 34.80        | 32.40      | 33.80               | 32.60   | 30.00                           |
| GSM1900 GPRS 2TX                                        | 2       | 25.00%     | 28.50            | 33.00        | 31.80        | 29.40      | 30.80               | 29.60   | 28.50                           |
| GSM1900 GPRS 3TX                                        | 2       | 37.50%     | 28.00            | 31.20        | 30.00        | 27.60      | 29.00               | 27.80   | 28.00                           |
| GSM1900 GPRS 4TX                                        | 2       | 50.00%     | 27.00            | 30.00        | 28.80        | 26.40      | 27.80               | 26.60   | 27.00                           |
| GSM1900 EDGE 1TX                                        | 2       | 12.50%     | 25.00            | 36.00        | 34.80        | 32.40      | 33.80               | 32.60   | 25.00                           |
| GSM1900 EDGE 2TX                                        | 2       | 25.00%     | 24.00            | 33.00        | 31.80        | 29.40      | 30.80               | 29.60   | 24.00                           |
| GSM1900 EDGE 3TX                                        | 2       | 37.50%     | 24.00            | 31.20        | 30.00        | 27.60      | 29.00               | 27.80   | 24.00                           |
| GSM1900 EDGE 4TX                                        | 2       | 50.00%     | 23.00            | 30.00        | 28.80        | 26.40      | 27.80               | 26.60   | 23.00                           |
| WCDMA B2                                                | 2       | 100.00%    | 24.60            | 25.20        | 24.00        | 21.80      | 23.40               | 22.20   | 24.60                           |
| WCDMA B4                                                | 2       | 100.00%    | 24.60            | 27.80        | 26.60        | 22.20      | 23.40               | 22.20   | 24.60                           |
| WCDMA B5                                                | 0       | 100.00%    | 24.70            | 30.40        | 29.20        | 25.50      | 26.70               | 25.50   | 24.70                           |

| Wireless technology/ band<br>(No Accounting duty cycle) | Antenna | Duty cycle | Mobile condition          | Head       |              | Hotspot      | Body-worn/Extremity |              | P Max Burst average power (dBm) |
|---------------------------------------------------------|---------|------------|---------------------------|------------|--------------|--------------|---------------------|--------------|---------------------------------|
|                                                         |         |            |                           | Standalone | Simultaneous | Simultaneous | Standalone          | Simultaneous |                                 |
|                                                         |         |            | Index 1                   | Index 2    | Index 3      | Index 4      | Index 5             | Index 6      |                                 |
|                                                         |         |            | P limit                   |            |              |              |                     |              |                                 |
|                                                         |         |            | Burst average power (dBm) |            |              |              |                     |              |                                 |
| GSM850 GSM/GPRS 1TX                                     | 1       | 12.50%     | 32.50                     | 32.30      | 31.10        | 36.80        | 38.00               | 36.80        | 32.50                           |
| GSM850 GPRS 2TX                                         | 1       | 25.00%     | 31.50                     | 29.30      | 28.10        | 33.80        | 35.00               | 33.80        | 31.50                           |
| GSM850 GPRS 3TX                                         | 1       | 37.50%     | 30.50                     | 27.50      | 26.30        | 32.00        | 33.20               | 32.00        | 30.50                           |
| GSM850 GPRS 4TX                                         | 1       | 50.00%     | 29.50                     | 26.30      | 25.10        | 30.80        | 32.00               | 30.80        | 29.50                           |
| GSM850 EDGE 1TX                                         | 1       | 12.50%     | 27.00                     | 32.30      | 31.10        | 36.80        | 38.00               | 36.80        | 27.00                           |
| GSM850 EDGE 2TX                                         | 1       | 25.00%     | 26.50                     | 29.30      | 28.10        | 33.80        | 35.00               | 33.80        | 26.50                           |
| GSM850 EDGE 3TX                                         | 1       | 37.50%     | 26.50                     | 27.50      | 26.30        | 32.00        | 33.20               | 32.00        | 26.50                           |
| GSM850 EDGE 4TX                                         | 1       | 50.00%     | 24.50                     | 26.30      | 25.10        | 30.80        | 32.00               | 30.80        | 24.50                           |
| GSM1900 GSM/GPRS 1TX                                    | 0       | 12.50%     | 29.20                     | 46.70      | 45.50        | 27.40        | 28.60               | 27.40        | 29.20                           |
| GSM1900 GPRS 2TX                                        | 0       | 25.00%     | 27.70                     | 43.70      | 42.50        | 24.40        | 25.60               | 24.40        | 27.70                           |
| GSM1900 GPRS 3TX                                        | 0       | 37.50%     | 27.20                     | 41.90      | 40.70        | 22.60        | 23.80               | 22.60        | 27.20                           |
| GSM1900 GPRS 4TX                                        | 0       | 50.00%     | 26.20                     | 40.70      | 39.50        | 21.40        | 22.60               | 21.40        | 26.20                           |
| GSM1900 EDGE 1TX                                        | 0       | 12.50%     | 24.20                     | 46.70      | 45.50        | 27.40        | 28.60               | 27.40        | 24.20                           |
| GSM1900 EDGE 2TX                                        | 0       | 25.00%     | 23.20                     | 43.70      | 42.50        | 24.40        | 25.60               | 24.40        | 23.20                           |
| GSM1900 EDGE 3TX                                        | 0       | 37.50%     | 23.20                     | 41.90      | 40.70        | 22.60        | 23.80               | 22.60        | 23.20                           |
| GSM1900 EDGE 4TX                                        | 0       | 50.00%     | 22.20                     | 40.70      | 39.50        | 21.40        | 22.60               | 21.40        | 22.20                           |
| WCDMA B2                                                | 0       | 100.00%    | 23.80                     | 35.60      | 34.40        | 16.60        | 18.60               | 17.40        | 23.80                           |
| WCDMA B4                                                | 0       | 100.00%    | 23.80                     | 35.50      | 34.30        | 16.90        | 19.00               | 17.80        | 23.80                           |
| WCDMA B5                                                | 1       | 100.00%    | 24.70                     | 22.60      | 21.40        | 26.00        | 27.20               | 26.00        | 24.70                           |

**<P<sub>limit</sub> for supported technologies and bands (P<sub>limit</sub> corresponding to SAR design target)>**

| Wireless technology/ band<br>(Accounting duty cycle) | Antenna | Duty cycle | Mobile condition         | Head       |              | Hotspot      | Body-worn/Extremity |              | P Max Time-average power (dBm) |
|------------------------------------------------------|---------|------------|--------------------------|------------|--------------|--------------|---------------------|--------------|--------------------------------|
|                                                      |         |            |                          | Standalone | Simultaneous | Simultaneous | Standalone          | Simultaneous |                                |
|                                                      |         |            | Index 1                  | Index 2    | Index 3      | Index 4      | Index 5             | Index 6      |                                |
|                                                      |         |            | P limit                  |            |              |              |                     |              |                                |
|                                                      |         |            | Time-average power (dBm) |            |              |              |                     |              |                                |
| LTE B7                                               | 2       | 100.00%    | 24.50                    | 26.90      | 25.70        | 21.10        | 22.50               | 21.30        | 24.50                          |
| LTE B12/B17                                          | 0       | 100.00%    | 24.70                    | 30.90      | 29.70        | 27.90        | 29.10               | 27.90        | 24.70                          |
| LTE B13                                              | 0       | 100.00%    | 24.70                    | 29.50      | 28.30        | 25.10        | 27.10               | 25.90        | 24.70                          |
| LTE B14                                              | 0       | 100.00%    | 24.70                    | 29.50      | 28.30        | 25.50        | 26.70               | 25.50        | 24.70                          |
| LTE B25/B2                                           | 2       | 100.00%    | 24.60                    | 26.10      | 24.90        | 22.60        | 23.80               | 22.60        | 24.60                          |
| LTE B26/B5                                           | 0       | 100.00%    | 24.70                    | 29.90      | 28.70        | 26.30        | 27.50               | 26.30        | 24.70                          |
| LTE B30                                              | 2       | 100.00%    | 23.40                    | 26.60      | 25.40        | 21.20        | 22.50               | 21.30        | 23.40                          |
| LTE B38 PC3                                          | 2       | 63.30%     | 22.50                    | 27.30      | 26.10        | 22.80        | 24.30               | 23.10        | 22.50                          |
| LTE B38 PC2                                          | 2       | 43.30%     | 22.50                    | 27.30      | 26.10        | 22.80        | 24.30               | 23.10        | 22.40                          |
| LTE B41 PC3                                          | 2       | 63.30%     | 22.50                    | 27.30      | 26.10        | 22.80        | 24.30               | 23.10        | 22.50                          |
| LTE B41 PC2                                          | 2       | 43.30%     | 22.50                    | 27.30      | 26.10        | 22.80        | 24.30               | 23.10        | 22.40                          |
| LTE B48 PC3                                          | 6       | 63.30%     | 22.30                    | 29.10      | 27.90        | 21.20        | 22.40               | 21.20        | 22.30                          |
| LTE B66/B4                                           | 2       | 100.00%    | 24.60                    | 26.60      | 25.40        | 22.50        | 24.00               | 22.80        | 24.60                          |
| LTE B71                                              | 0       | 100.00%    | 24.70                    | 32.10      | 30.90        | 27.80        | 30.10               | 28.90        | 24.70                          |
| FR1 n5                                               | 0       | 100.00%    | 24.70                    | 29.30      | 28.10        | 28.60        | 29.80               | 28.60        | 24.70                          |
| FR1 n7                                               | 2       | 100.00%    | 24.50                    | 27.40      | 26.20        | 20.70        | 23.30               | 22.10        | 24.50                          |
| FR1 n12                                              | 0       | 100.00%    | 24.70                    | 31.10      | 29.90        | 27.80        | 29.00               | 27.80        | 24.70                          |
| FR1 n14                                              | 0       | 100.00%    | 24.70                    | 30.70      | 29.50        | 26.40        | 27.60               | 26.40        | 24.70                          |
| FR1 n25/n2                                           | 2       | 100.00%    | 24.60                    | 25.20      | 24.00        | 22.50        | 23.70               | 22.50        | 24.60                          |
| FR1 n30                                              | 2       | 100.00%    | 23.40                    | 26.30      | 25.10        | 21.10        | 22.30               | 21.10        | 23.40                          |
| FR1 n38 PC3                                          | 2       | 100.00%    | 24.50                    | 26.50      | 25.30        | 21.80        | 23.50               | 22.30        | 24.50                          |
| FR1 n41 PC3                                          | 2       | 100.00%    | 24.50                    | 26.50      | 25.30        | 21.80        | 23.50               | 22.30        | 24.50                          |
| FR1 n41 PC2                                          | 2       | 50.00%     | 24.50                    | 26.50      | 25.30        | 21.80        | 23.50               | 22.30        | 23.00                          |
| FR1 n41 PC1.5 ULMIMO                                 | 2       | 25.00%     | 24.50                    | 26.50      | 25.30        | 21.80        | 23.50               | 22.30        | 19.00                          |
| FR1 n48 PC3                                          | 6       | 100.00%    | 24.30                    | 28.40      | 27.20        | 21.60        | 22.80               | 21.60        | 24.30                          |
| FR1 n66                                              | 2       | 100.00%    | 24.60                    | 32.40      | 31.20        | 22.50        | 23.70               | 22.50        | 24.60                          |
| FR1 n71                                              | 0       | 100.00%    | 24.70                    | 31.70      | 30.50        | 28.10        | 29.30               | 28.10        | 24.70                          |
| FR1 n77 PC3                                          | 6       | 100.00%    | 23.00                    | 30.60      | 29.40        | 21.80        | 23.00               | 21.80        | 23.00                          |
| FR1 n77 PC2                                          | 6       | 50.00%     | 23.00                    | 30.60      | 29.40        | 21.80        | 23.00               | 21.80        | 23.00                          |
| LTE B2 Sub                                           | 1       | 100.00%    | 24.60                    | 15.20      | 14.00        | 19.10        | 21.60               | 20.40        | 24.60                          |
| LTE B66/B4 Sub                                       | 1       | 100.00%    | 24.60                    | 17.20      | 16.00        | 22.40        | 23.80               | 22.60        | 24.60                          |
| FR1 n2 Sub                                           | 1       | 100.00%    | 24.60                    | 16.20      | 15.00        | 19.60        | 22.20               | 21.00        | 24.60                          |
| FR1 n38 PC3 Sub                                      | 1       | 100.00%    | 24.50                    | 18.10      | 16.90        | 22.10        | 23.30               | 22.10        | 24.50                          |
| FR1 n41 PC3 Sub                                      | 1       | 100.00%    | 24.50                    | 18.10      | 16.90        | 22.10        | 23.30               | 22.10        | 24.50                          |
| FR1 n41 PC2 Sub                                      | 1       | 50.00%     | 24.50                    | 18.10      | 16.90        | 22.10        | 23.30               | 22.10        | 23.00                          |
| FR1 n41 PC1.5 Sub ULMIMO                             | 1       | 25.00%     | 24.50                    | 18.10      | 16.90        | 22.10        | 23.30               | 22.10        | 19.00                          |
| FR1 n48 PC3 Sub ULMIMO                               | 1       | 100.00%    | 19.40                    | 19.40      | 18.20        | 26.00        | 27.20               | 26.00        | 19.40                          |
| FR1 n66 Sub                                          | 1       | 100.00%    | 24.60                    | 18.00      | 16.80        | 22.80        | 24.30               | 23.10        | 24.60                          |
| FR1 n77 Sub                                          | 1       | 100.00%    | 24.30                    | 19.60      | 18.40        | 24.70        | 25.90               | 24.70        | 24.30                          |

**General Note:**

1. When the device operate in n41 PC1.5 Ant2 and Ant 1, n48 PC3 Ant1 only support uplink MIMO
2. LTE and 5GNR TDD: P<sub>limit</sub> power levels in the table correspond to the time-averaged power levels which accounts for TX duty cycle.
3. Maximum target power, P<sub>max</sub>, is configured in NV settings in EUT to limit maximum transmitting power. This power is converted into peak power in NV settings for TDD schemes.

**<P<sub>limit</sub> for supported technologies and bands (P<sub>limit</sub> corresponding to SAR design target)>**

| Wireless technology/ band<br>(Accounting duty cycle) | Antenna | Duty cycle | Mobile condition | Head       |              | Hotspot      | Body-worn/Extremity |              | P Max Time-average power (dBm) |
|------------------------------------------------------|---------|------------|------------------|------------|--------------|--------------|---------------------|--------------|--------------------------------|
|                                                      |         |            | Index 1          | Standalone | Simultaneous | Simultaneous | Standalone          | Simultaneous |                                |
|                                                      |         |            |                  | Index 2    | Index 3      | Index 4      | Index 5             | Index 6      |                                |
|                                                      |         |            |                  | P limit    |              |              |                     |              |                                |
| Time-average power (dBm)                             |         |            |                  |            |              |              |                     |              |                                |
| LTE B7                                               | 0       | 100.00%    | 23.50            | 26.60      | 25.40        | 16.80        | 20.30               | 19.10        | 23.50                          |
| LTE B12/B17                                          | 1       | 100.00%    | 24.70            | 23.20      | 22.00        | 29.20        | 30.40               | 29.20        | 24.70                          |
| LTE B13                                              | 1       | 100.00%    | 24.70            | 22.60      | 21.40        | 27.50        | 28.70               | 27.50        | 24.70                          |
| LTE B14                                              | 1       | 100.00%    | 24.70            | 22.70      | 21.50        | 27.60        | 28.80               | 27.60        | 24.70                          |
| LTE B25/B2                                           | 0       | 100.00%    | 23.80            | 34.70      | 33.50        | 17.40        | 18.80               | 17.60        | 23.80                          |
| LTE B26/B5                                           | 1       | 100.00%    | 24.70            | 23.20      | 22.00        | 27.50        | 28.70               | 27.50        | 24.70                          |
| LTE B30                                              | 0       | 100.00%    | 23.00            | 29.20      | 28.00        | 16.50        | 19.70               | 18.50        | 23.00                          |
| LTE B38 PC3                                          | 0       | 63.30%     | 22.50            | 27.70      | 26.50        | 17.80        | 21.30               | 20.10        | 22.50                          |
| LTE B38 PC2                                          | 0       | 43.30%     | 22.50            | 27.70      | 26.50        | 17.80        | 21.30               | 20.10        | 22.40                          |
| LTE B41 PC3                                          | 0       | 63.30%     | 22.50            | 27.70      | 26.50        | 17.80        | 21.30               | 20.10        | 22.50                          |
| LTE B41 PC2                                          | 0       | 43.30%     | 22.50            | 27.70      | 26.50        | 17.80        | 21.30               | 20.10        | 22.40                          |
| LTE B48 PC3                                          | 7       | 63.30%     | 21.20            | 36.30      | 35.10        | 23.40        | 24.60               | 23.40        | 21.20                          |
| LTE B66/B4                                           | 0       | 100.00%    | 23.80            | 33.70      | 32.50        | 15.90        | 19.40               | 18.20        | 23.80                          |
| LTE B71                                              | 1       | 100.00%    | 24.70            | 23.70      | 22.50        | 30.30        | 31.50               | 30.30        | 24.70                          |
| FR1 n5                                               | 1       | 100.00%    | 24.70            | 23.60      | 22.40        | 26.90        | 28.10               | 26.90        | 24.70                          |
| FR1 n7                                               | 0       | 100.00%    | 23.50            | 28.00      | 26.80        | 16.20        | 19.70               | 18.50        | 23.50                          |
| FR1 n12                                              | 1       | 100.00%    | 24.70            | 23.60      | 22.40        | 28.70        | 29.90               | 28.70        | 24.70                          |
| FR1 n14                                              | 1       | 100.00%    | 24.70            | 23.00      | 21.80        | 29.30        | 30.50               | 29.30        | 24.70                          |
| FR1 n25/n2                                           | 0       | 100.00%    | 23.80            | 36.40      | 35.20        | 17.50        | 18.90               | 17.70        | 23.80                          |
| FR1 n30                                              | 0       | 100.00%    | 23.00            | 29.70      | 28.50        | 16.30        | 20.00               | 18.80        | 23.00                          |
| FR1 n38 PC3                                          | 0       | 100.00%    | 24.50            | 28.40      | 27.20        | 18.10        | 22.00               | 20.80        | 24.50                          |
| FR1 n41 PC3                                          | 0       | 100.00%    | 24.50            | 28.40      | 27.20        | 18.10        | 22.00               | 20.80        | 24.50                          |
| FR1 n41 PC2                                          | 0       | 50.00%     | 24.50            | 28.40      | 27.20        | 18.10        | 22.00               | 20.80        | 23.00                          |
| FR1 n41 PC1.5 ULMIMO                                 | 0       | 25.00%     | 24.50            | 28.40      | 27.20        | 18.10        | 22.00               | 20.80        | 19.00                          |
| FR1 n48 PC3                                          | 7       | 100.00%    | 23.20            | 32.40      | 31.20        | 19.40        | 20.60               | 19.40        | 23.20                          |
| FR1 n66                                              | 0       | 100.00%    | 23.80            | 36.90      | 35.70        | 16.60        | 19.30               | 18.10        | 23.80                          |
| FR1 n71                                              | 1       | 100.00%    | 24.70            | 23.40      | 22.20        | 29.80        | 31.00               | 29.80        | 24.70                          |
| FR1 n77 PC3                                          | 7       | 100.00%    | 21.90            | 31.00      | 29.80        | 21.90        | 23.10               | 21.90        | 21.90                          |
| FR1 n77 PC2                                          | 7       | 50.00%     | 21.90            | 31.00      | 29.80        | 21.90        | 23.10               | 21.90        | 21.90                          |
| LTE B2 Sub                                           | 5       | 100.00%    | 23.80            | 20.50      | 19.30        | 21.60        | 26.10               | 24.90        | 23.80                          |
| LTE B66/B4 Sub                                       | 5       | 100.00%    | 23.80            | 23.30      | 22.10        | 24.60        | 26.80               | 25.60        | 23.80                          |
| FR1 n2 Sub                                           | 5       | 100.00%    | 23.80            | 20.90      | 19.70        | 22.40        | 26.30               | 25.10        | 23.80                          |
| FR1 n38 PC3 Sub                                      | 5       | 100.00%    | 23.50            | 20.90      | 19.70        | 21.40        | 22.60               | 21.40        | 23.50                          |
| FR1 n41 PC3 Sub                                      | 5       | 100.00%    | 23.50            | 20.90      | 19.70        | 21.40        | 22.60               | 21.40        | 23.50                          |
| FR1 n41 PC2 Sub                                      | 5       | 50.00%     | 23.50            | 20.90      | 19.70        | 21.40        | 22.60               | 21.40        | 22.00                          |
| FR1 n41 PC1.5 Sub ULMIMO                             | 5       | 25.00%     | 23.50            | 20.90      | 19.70        | 21.40        | 22.60               | 21.40        | 19.00                          |
| FR1 n48 PC3 Sub ULMIMO                               | 5       | 100.00%    | 17.60            | 21.80      | 20.60        | 24.00        | 29.30               | 28.10        | 17.60                          |
| FR1 n66 Sub                                          | 5       | 100.00%    | 23.80            | 23.20      | 22.00        | 24.40        | 26.60               | 25.40        | 23.80                          |
| FR1 n77 Sub                                          | 5       | 100.00%    | 23.20            | 20.10      | 18.90        | 21.80        | 25.70               | 24.50        | 23.20                          |

**General Note:**

- When the device operate in n41 PC1.5 Ant 0 and Ant 5, n48 PC3 Ant5 only support uplink MIMO.
- LTE and 5GNR TDD: P<sub>limit</sub> power levels in the table correspond to the time-averaged power levels which accounts for TX duty cycle.
- Maximum target power, P<sub>max</sub>, is configured in NV settings in EUT to limit maximum transmitting power. This power is converted into peak power in NV settings for TDD schemes.

## **4. RF Exposure Limits**

### **4.1 Uncontrolled Environment**

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

### **4.2 Controlled Environment**

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**Limits for Occupational/Controlled Exposure (W/kg)**

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.4        | 8.0          | 20.0                           |

**Limits for General Population/Uncontrolled Exposure (W/kg)**

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.08       | 1.6          | 4.0                            |

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.



According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm<sup>2</sup> per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1500                                                       |                               |                               | f/300                               | 6                        |
| 1500-100,000                                                   |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                                        | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                       |
| 30-300                                                         | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300-1500                                                       |                               |                               | f/1500                              | 30                       |
| 1500-100,000                                                   |                               |                               | 1.0                                 | 30                       |

**Reviewed by: Jason Wang**

**Report Producer: Paula Chen**

## **5. Guidance Applied**

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

## **6. Specific Absorption Rate (SAR)**

### **6.1 Introduction**

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

### **6.2 SAR Definition**

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density ( $\rho$ ). The equation description is as below:

$$SAR = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dv} \right)$$

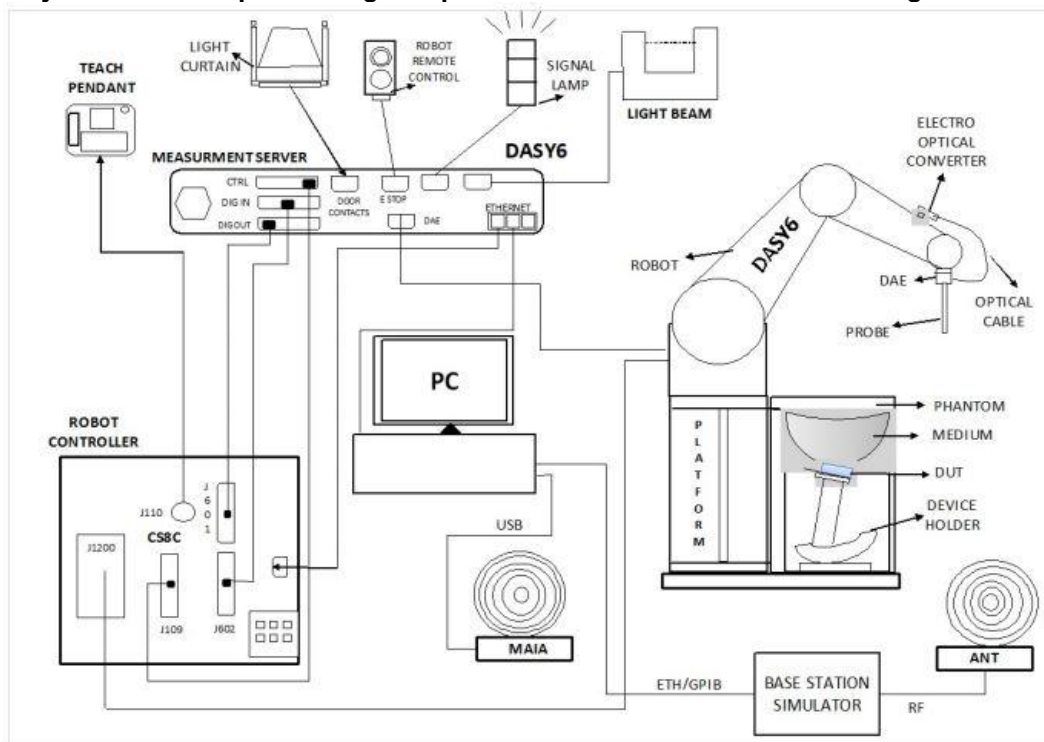
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

## 7. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- The DASY system in SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

### 7.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

| Test Site          | EMC & Wireless Communications Laboratory<br>TW1190            |          | Wensan Laboratory<br>TW3786                                                          |          |          |
|--------------------|---------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|----------|----------|
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan |          | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan |          |          |
| Test Site No.      | SAR01-HY                                                      | SAR03-HY | SAR08-HY                                                                             | SAR09-HY | SAR15-HY |
|                    | SAR04-HY                                                      | SAR05-HY | SAR11-HY                                                                             | SAR12-HY |          |
|                    | SAR06-HY                                                      | SAR10-HY | SAR13-HY                                                                             | SAR14-HY |          |

## 7.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

### <ES3DV3 Probe>

|               |                                                                                                                                                                                  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction  | Symmetric design with triangular core<br>Interleaved sensors<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |
| Frequency     | 10 MHz – 4 GHz;<br>Linearity: $\pm 0.2$ dB (30 MHz – 4 GHz)                                                                                                                      |
| Directivity   | $\pm 0.2$ dB in TSL (rotation around probe axis)<br>$\pm 0.3$ dB in TSL (rotation normal to probe axis)                                                                          |
| Dynamic Range | 5 $\mu$ W/g – >100 mW/g;<br>Linearity: $\pm 0.2$ dB                                                                                                                              |
| Dimensions    | Overall length: 337 mm (tip: 20 mm)<br>Tip diameter: 3.9 mm (body: 12 mm)<br>Distance from probe tip to dipole centers: 3.0 mm                                                   |



### <EX3DV4 Probe>

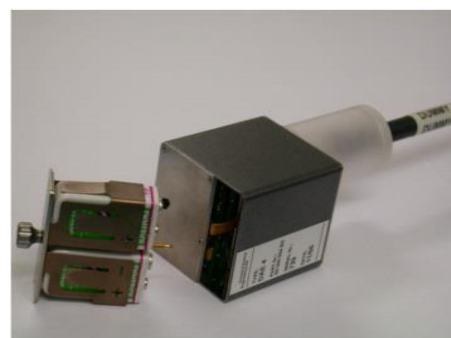
|               |                                                                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction  | Symmetric design with triangular core<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |
| Frequency     | 10 MHz – >6 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz – 6 GHz)                                                                                               |
| Directivity   | $\pm 0.3$ dB in TSL (rotation around probe axis)<br>$\pm 0.5$ dB in TSL (rotation normal to probe axis)                                                   |
| Dynamic Range | 10 $\mu$ W/g – >100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically <1 $\mu$ W/g)                                                                       |
| Dimensions    | Overall length: 337 mm (tip: 20 mm)<br>Tip diameter: 2.5 mm (body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                      |



## 7.3 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



**Fig 5.1** Photo of DAE

## 7.4 Phantom

### <SAM Twin Phantom>

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| Shell Thickness   | 2 ± 0.2 mm;<br>Center ear point: 6 ± 0.2 mm                |
| Filling Volume    | Approx. 25 liters                                          |
| Dimensions        | Length: 1000 mm; Width: 500 mm; Height:<br>adjustable feet |
| Measurement Areas | Left Hand, Right Hand, Flat Phantom                        |



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

### <ELI Phantom>

|                 |                                                  |
|-----------------|--------------------------------------------------|
| Shell Thickness | 2 ± 0.2 mm (sagging: <1%)                        |
| Filling Volume  | Approx. 30 liters                                |
| Dimensions      | Major ellipse axis: 600 mm<br>Minor axis: 400 mm |



The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

## **7.5 Device Holder**

### **<Mounting Device for Hand-Held Transmitter>**

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

### **<Mounting Device for Laptops and other Body-Worn Transmitters>**

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

## **8. Measurement Procedures**

The measurement procedures are as follows:

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

### **8.1 Spatial Peak SAR Evaluation**

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

## **8.2 Power Reference Measurement**

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

## **8.3 Area Scan**

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

|                                                                                                        | $\leq 3$ GHz                                                                                                                                                                                                                                                           | $> 3$ GHz                                              |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | $5 \pm 1$ mm                                                                                                                                                                                                                                                           | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm     |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location              | $30^\circ \pm 1^\circ$                                                                                                                                                                                                                                                 | $20^\circ \pm 1^\circ$                                 |
| Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$                            | $\leq 2$ GHz: $\leq 15$ mm<br>$2 - 3$ GHz: $\leq 12$ mm                                                                                                                                                                                                                | $3 - 4$ GHz: $\leq 12$ mm<br>$4 - 6$ GHz: $\leq 10$ mm |
|                                                                                                        | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                        |

### 8.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

|                                                                                                                                                                                                                                                                                                             |                                           |                                                                                             | $\leq 3$ GHz                                         | $> 3$ GHz                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------|
| Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$                                                                                                                                                                                                                      |                                           |                                                                                             | $\leq 2$ GHz: $\leq 8$ mm<br>2 – 3 GHz: $\leq 5$ mm* | 3 – 4 GHz: $\leq 5$ mm*<br>4 – 6 GHz: $\leq 4$ mm*                            |
| Maximum zoom scan spatial resolution, normal to phantom surface                                                                                                                                                                                                                                             | uniform grid: $\Delta z_{\text{Zoom}}(n)$ |                                                                                             | $\leq 5$ mm                                          | 3 – 4 GHz: $\leq 4$ mm<br>4 – 5 GHz: $\leq 3$ mm<br>5 – 6 GHz: $\leq 2$ mm    |
|                                                                                                                                                                                                                                                                                                             | graded grid                               | $\Delta z_{\text{Zoom}}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | $\leq 4$ mm                                          | 3 – 4 GHz: $\leq 3$ mm<br>4 – 5 GHz: $\leq 2.5$ mm<br>5 – 6 GHz: $\leq 2$ mm  |
|                                                                                                                                                                                                                                                                                                             |                                           | $\Delta z_{\text{Zoom}}(n>1)$ : between subsequent points                                   | $\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$         |                                                                               |
| Minimum zoom scan volume                                                                                                                                                                                                                                                                                    | x, y, z                                   |                                                                                             | $\geq 30$ mm                                         | 3 – 4 GHz: $\geq 28$ mm<br>4 – 5 GHz: $\geq 25$ mm<br>5 – 6 GHz: $\geq 22$ mm |
| Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.                                                                                                                                                           |                                           |                                                                                             |                                                      |                                                                               |
| * When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4$ W/kg, $\leq 8$ mm, $\leq 7$ mm and $\leq 5$ mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. |                                           |                                                                                             |                                                      |                                                                               |

### 8.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

### 8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

## 9. Test Equipment List

| Manufacturer  | Name of Equipment                            | Type/Model      | Serial Number | Calibration   |               |
|---------------|----------------------------------------------|-----------------|---------------|---------------|---------------|
|               |                                              |                 |               | Last Cal.     | Due Date      |
| SPEAG         | 750MHz System Validation Kit                 | D750V3          | 1012          | Aug. 18, 2021 | Aug. 17, 2022 |
| SPEAG         | 835MHz System Validation Kit                 | D835V2          | 499           | Aug. 18, 2021 | Aug. 17, 2022 |
| SPEAG         | 835MHz System Validation Kit <sup>(2)</sup>  | D835V2          | 4d167         | Nov. 25, 2019 | Nov. 22, 2022 |
| SPEAG         | 1750MHz System Validation Kit                | D1750V2         | 1068          | Nov. 25, 2021 | Nov. 24, 2022 |
| SPEAG         | 1900MHz System Validation Kit                | D1900V2         | 5d041         | Aug. 19, 2021 | Aug. 18, 2022 |
| SPEAG         | 2300MHz System Validation Kit                | D2300V2         | 1006          | Jan. 18, 2022 | Jan. 17, 2023 |
| SPEAG         | 2450MHz System Validation Kit                | D2450V2         | 736           | Aug. 17, 2021 | Aug. 17, 2022 |
| SPEAG         | 2450MHz System Validation Kit <sup>(2)</sup> | D2450V2         | 929           | Nov. 21, 2019 | Nov. 18, 2022 |
| SPEAG         | 2600MHz System Validation Kit                | D2600V2         | 1008          | Aug. 17, 2021 | Aug. 16, 2022 |
| SPEAG         | 3500MHz System Validation Kit                | D3500V2         | 1014          | Jan. 17, 2022 | Jan. 16, 2023 |
| SPEAG         | 3700MHz System Validation Kit                | D3700V2         | 1022          | Jul. 14, 2021 | Jul. 13, 2022 |
| SPEAG         | 3900MHz System Validation Kit <sup>(2)</sup> | D3900V2         | 1017          | Apr. 29, 2019 | Apr. 26, 2022 |
| SPEAG         | 5GHz System Validation Kit <sup>(2)</sup>    | D5GHzV2         | 1128          | Dec. 16, 2019 | Dec. 13, 2022 |
| SPEAG         | 5GHz System Validation Kit <sup>(2)</sup>    | D5GHzV2         | 1171          | Apr. 20, 2021 | Apr. 18, 2023 |
| SPEAG         | 6500MHz System Validation Kit                | D6.5GHzV2       | 1003          | Sep. 24, 2021 | Sep. 23, 2022 |
| SPEAG         | 5G Verification Source                       | 10 GHz          | 1020          | Jan. 18, 2022 | Jan. 17, 2023 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 316           | Jan. 26, 2022 | Jan. 25, 2023 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 656           | Jan. 19, 2022 | Jan. 18, 2023 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 699           | Feb. 24, 2022 | Feb. 23, 2023 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 1399          | Feb. 28, 2022 | Feb. 27, 2023 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 1424          | Jan. 20, 2022 | Jan. 19, 2023 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 1512          | Mar. 29, 2022 | Mar. 28, 2023 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 1696          | Nov. 03, 2021 | Nov. 02, 2022 |
| SPEAG         | Dosimetric E-Field Probe                     | ES3DV3          | 3115          | Nov. 23, 2021 | Nov. 22, 2022 |
| SPEAG         | Dosimetric E-Field Probe                     | ES3DV3          | 3270          | Sep. 21, 2021 | Sep. 20, 2022 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 3728          | Mar. 02, 2022 | Mar. 01, 2023 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 3931          | Oct. 21, 2021 | Oct. 20, 2022 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 3976          | Jan. 27, 2022 | Jan. 26, 2023 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 7625          | Jan. 27, 2022 | Jan. 26, 2023 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 7694          | Jan. 24, 2022 | Jan. 23, 2023 |
| SPEAG         | EUmmWV Probe Tip Protection                  | EUmmWV4         | 9461          | Oct. 22, 2021 | Oct. 21, 2022 |
| Testo         | Hygro meter                                  | 608-H1          | 45196600      | Oct. 22, 2021 | Oct. 21, 2022 |
| Testo         | Hygro meter                                  | 608-H1          | 45207528      | Oct. 22, 2021 | Oct. 21, 2022 |
| RCPTWN        | Thermometer                                  | HTC-1           | TM685-1       | Oct. 28, 2021 | Oct. 27, 2022 |
| RCPTWN        | Thermometer                                  | HTC-1           | TM560-2       | Oct. 28, 2021 | Oct. 27, 2022 |
| Anritsu       | Radio Communication Analyzer                 | MT8821C         | 6201341950    | Oct. 21, 2021 | Oct. 20, 2022 |
| Keysight      | Wireless Communication Test Set              | E5515C          | MY50267236    | Mar. 02, 2022 | Mar. 01, 2023 |
| R&S           | BT Base Station                              | CBT32           | 101136        | Oct. 17, 2021 | Oct. 16, 2022 |
| SPEAG         | Device Holder                                | N/A             | N/A           | N/A           | N/A           |
| Anritsu       | Signal Generator                             | MG3710A         | 6201502524    | Oct. 24, 2021 | Oct. 23, 2022 |
| Keysight      | ENA Network Analyzer                         | E5071C          | MY46104758    | Sep. 19, 2021 | Sep. 18, 2022 |
| SPEAG         | Dielectric Probe Kit                         | DAK-3.5         | 1126          | Sep. 24, 2021 | Sep. 23, 2022 |
| LINE SEIKI    | Digital Thermometer                          | DTM3000-spezial | 2942          | Oct. 26, 2021 | Oct. 25, 2022 |
| Anritsu       | Power Meter                                  | ML2495A         | 1419002       | Aug. 18, 2021 | Aug. 17, 2022 |
| Anritsu       | Power Sensor                                 | MA2411B         | 1911176       | Aug. 18, 2021 | Aug. 17, 2022 |
| Anritsu       | Power Meter                                  | ML2495A         | 1804003       | Oct. 09, 2021 | Oct. 08, 2022 |
| Anritsu       | Power Sensor                                 | MA2411B         | 1726150       | Oct. 09, 2021 | Oct. 08, 2022 |
| Anritsu       | Spectrum Analyzer                            | N9010A          | MY53470118    | Jan. 12, 2022 | Jan. 11, 2023 |
| Agilent       | Spectrum Analyzer                            | E4408B          | MY44211028    | Aug. 19, 2021 | Aug. 18, 2022 |
| Mini-Circuits | Power Amplifier                              | ZVE-8G+         | 6418          | Oct. 12, 2021 | Oct. 11, 2022 |
| Mini-Circuits | Power Amplifier                              | ZVE-8G+         | 479102029     | Sep. 06, 2021 | Sep. 05, 2022 |
| ATM           | Dual Directional Coupler                     | C122H-10        | P610410z-02   | Note 1        |               |



|         |                     |                |             |        |
|---------|---------------------|----------------|-------------|--------|
| Warison | Directional Coupler | WCOU-10-50S-10 | WR889BMC4B1 | Note 1 |
| Woken   | Attenuator 1        | WK0602-XX      | N/A         | Note 1 |
| PE      | Attenuator 2        | PE7005-10      | N/A         | Note 1 |
| PE      | Attenuator 3        | PE7005- 3      | N/A         | Note 1 |

**General Note:**

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

## 10. System Verification

### 10.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within  $\pm 2^\circ\text{C}$  of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing.

#### <Tissue Dielectric Parameter Check Results>

| Frequency (MHz) | Liquid Temp. (°C) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) | Conductivity Target ( $\sigma$ ) | Permittivity Target ( $\epsilon_r$ ) | Delta ( $\sigma$ ) (%) | Delta ( $\epsilon_r$ ) (%) | Limit (%) | Date      |
|-----------------|-------------------|---------------------------|-------------------------------|----------------------------------|--------------------------------------|------------------------|----------------------------|-----------|-----------|
| 750             | 22.6              | 0.888                     | 42.300                        | 0.89                             | 41.90                                | -0.22                  | 0.95                       | $\pm 5$   | 2022/4/12 |
| 750             | 22.6              | 0.890                     | 42.135                        | 0.89                             | 41.90                                | 0.00                   | 0.56                       | $\pm 5$   | 2022/4/16 |
| 750             | 22.5              | 0.890                     | 43.009                        | 0.89                             | 41.90                                | 0.00                   | 2.65                       | $\pm 5$   | 2022/5/2  |
| 750             | 22.6              | 0.882                     | 42.167                        | 0.89                             | 41.90                                | -0.90                  | 0.64                       | $\pm 5$   | 2022/5/3  |
| 750             | 22.7              | 0.885                     | 42.340                        | 0.89                             | 41.90                                | -0.56                  | 1.05                       | $\pm 5$   | 2022/5/5  |
| 750             | 22.6              | 0.875                     | 41.464                        | 0.89                             | 41.90                                | -1.69                  | -1.04                      | $\pm 5$   | 2022/5/25 |
| 835             | 22.6              | 0.881                     | 42.343                        | 0.90                             | 41.50                                | -2.11                  | 2.03                       | $\pm 5$   | 2022/4/11 |
| 835             | 22.4              | 0.880                     | 42.330                        | 0.90                             | 41.50                                | -2.22                  | 2.00                       | $\pm 5$   | 2022/4/15 |
| 835             | 22.6              | 0.886                     | 42.237                        | 0.90                             | 41.50                                | -1.56                  | 1.78                       | $\pm 5$   | 2022/4/16 |
| 835             | 22.3              | 0.897                     | 41.505                        | 0.90                             | 41.50                                | -0.33                  | 0.01                       | $\pm 5$   | 2022/4/20 |
| 835             | 22.6              | 0.908                     | 42.078                        | 0.90                             | 41.50                                | 0.89                   | 1.39                       | $\pm 5$   | 2022/5/3  |
| 835             | 22.7              | 0.922                     | 42.071                        | 0.90                             | 41.50                                | 2.44                   | 1.38                       | $\pm 5$   | 2022/5/5  |
| 1750            | 22.6              | 1.360                     | 40.632                        | 1.37                             | 40.10                                | -0.73                  | 1.33                       | $\pm 5$   | 2022/4/15 |
| 1750            | 22.4              | 1.351                     | 40.537                        | 1.37                             | 40.10                                | -1.39                  | 1.09                       | $\pm 5$   | 2022/4/17 |
| 1750            | 22.5              | 1.376                     | 41.436                        | 1.37                             | 40.10                                | 0.44                   | 3.33                       | $\pm 5$   | 2022/4/21 |
| 1750            | 22.5              | 1.353                     | 39.697                        | 1.37                             | 40.10                                | -1.24                  | -1.00                      | $\pm 5$   | 2022/4/23 |
| 1750            | 22.5              | 1.338                     | 39.730                        | 1.37                             | 40.10                                | -2.34                  | -0.92                      | $\pm 5$   | 2022/5/1  |
| 1750            | 22.5              | 1.376                     | 40.808                        | 1.37                             | 40.10                                | 0.44                   | 1.77                       | $\pm 5$   | 2022/5/2  |
| 1750            | 22.2              | 1.385                     | 39.624                        | 1.37                             | 40.10                                | 1.09                   | -1.19                      | $\pm 5$   | 2022/5/4  |
| 1750            | 22.6              | 1.370                     | 40.633                        | 1.37                             | 40.10                                | 0.00                   | 1.33                       | $\pm 5$   | 2022/5/9  |
| 1750            | 22.4              | 1.373                     | 40.618                        | 1.37                             | 40.10                                | 0.22                   | 1.29                       | $\pm 5$   | 2022/5/10 |
| 1750            | 22.6              | 1.373                     | 41.027                        | 1.37                             | 40.10                                | 0.22                   | 2.31                       | $\pm 5$   | 2022/5/11 |
| 1750            | 22.3              | 1.372                     | 41.013                        | 1.37                             | 40.10                                | 0.15                   | 2.28                       | $\pm 5$   | 2022/5/13 |
| 1750            | 22.3              | 1.372                     | 40.613                        | 1.37                             | 40.10                                | 0.15                   | 1.28                       | $\pm 5$   | 2022/5/16 |
| 1900            | 22.5              | 1.446                     | 41.149                        | 1.40                             | 40.00                                | 3.29                   | 2.87                       | $\pm 5$   | 2022/4/13 |
| 1900            | 22.3              | 1.435                     | 41.003                        | 1.40                             | 40.00                                | 2.50                   | 2.51                       | $\pm 5$   | 2022/4/19 |
| 1900            | 22.5              | 1.410                     | 40.505                        | 1.40                             | 40.00                                | 0.71                   | 1.26                       | $\pm 5$   | 2022/4/21 |
| 1900            | 22.4              | 1.449                     | 39.269                        | 1.40                             | 40.00                                | 3.50                   | -1.83                      | $\pm 5$   | 2022/4/22 |
| 1900            | 22.7              | 1.424                     | 39.533                        | 1.40                             | 40.00                                | 1.71                   | -1.17                      | $\pm 5$   | 2022/4/25 |
| 1900            | 22.4              | 1.391                     | 39.136                        | 1.40                             | 40.00                                | -0.64                  | -2.16                      | $\pm 5$   | 2022/5/1  |
| 1900            | 22.2              | 1.398                     | 39.260                        | 1.40                             | 40.00                                | -0.14                  | -1.85                      | $\pm 5$   | 2022/5/4  |
| 1900            | 22.5              | 1.374                     | 40.280                        | 1.40                             | 40.00                                | -1.86                  | 0.70                       | $\pm 5$   | 2022/5/10 |
| 1900            | 22.4              | 1.388                     | 40.366                        | 1.40                             | 40.00                                | -0.86                  | 0.91                       | $\pm 5$   | 2022/5/10 |
| 1900            | 22.6              | 1.382                     | 40.520                        | 1.40                             | 40.00                                | -1.29                  | 1.30                       | $\pm 5$   | 2022/5/11 |
| 1900            | 22.6              | 1.450                     | 39.479                        | 1.40                             | 40.00                                | 3.57                   | -1.30                      | $\pm 5$   | 2022/5/11 |
| 1900            | 22.1              | 1.447                     | 39.446                        | 1.40                             | 40.00                                | 3.36                   | -1.39                      | $\pm 5$   | 2022/5/14 |
| 1900            | 22.3              | 1.406                     | 39.861                        | 1.40                             | 40.00                                | 0.43                   | -0.35                      | $\pm 5$   | 2022/5/17 |

| Frequency (MHz) | Liquid Temp. (°C) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) | Conductivity Target ( $\sigma$ ) | Permittivity Target ( $\epsilon_r$ ) | Delta ( $\sigma$ ) (%) | Delta ( $\epsilon_r$ ) (%) | Limit (%) | Date      |
|-----------------|-------------------|---------------------------|-------------------------------|----------------------------------|--------------------------------------|------------------------|----------------------------|-----------|-----------|
| 2300            | 22.8              | 1.610                     | 40.055                        | 1.67                             | 39.50                                | -3.59                  | 1.41                       | ±5        | 2022/4/14 |
| 2300            | 22.2              | 1.612                     | 40.068                        | 1.67                             | 39.50                                | -3.47                  | 1.44                       | ±5        | 2022/4/18 |
| 2300            | 22.4              | 1.593                     | 39.170                        | 1.67                             | 39.50                                | -4.61                  | -0.84                      | ±5        | 2022/4/24 |
| 2300            | 22.2              | 1.626                     | 40.221                        | 1.67                             | 39.50                                | -2.63                  | 1.83                       | ±5        | 2022/4/30 |
| 2300            | 22.6              | 1.688                     | 39.973                        | 1.67                             | 39.50                                | 1.08                   | 1.20                       | ±5        | 2022/5/11 |
| 2300            | 22.3              | 1.646                     | 40.160                        | 1.67                             | 39.50                                | -1.44                  | 1.67                       | ±5        | 2022/5/13 |
| 2300            | 22.3              | 1.612                     | 41.306                        | 1.67                             | 39.50                                | -3.47                  | 4.57                       | ±5        | 2022/5/16 |
| 2450            | 22.1              | 1.749                     | 39.174                        | 1.80                             | 39.20                                | -2.83                  | -0.07                      | ±5        | 2022/4/8  |
| 2450            | 22.8              | 1.815                     | 40.004                        | 1.80                             | 39.20                                | 0.83                   | 2.05                       | ±5        | 2022/4/28 |
| 2450            | 22.7              | 1.768                     | 38.210                        | 1.80                             | 39.20                                | -1.78                  | -2.53                      | ±5        | 2022/4/29 |
| 2450            | 22.5              | 1.790                     | 38.524                        | 1.80                             | 39.20                                | -0.56                  | -1.72                      | ±5        | 2022/4/30 |
| 2450            | 22.8              | 1.789                     | 38.515                        | 1.80                             | 39.20                                | -0.61                  | -1.75                      | ±5        | 2022/5/2  |
| 2450            | 22.5              | 1.845                     | 39.428                        | 1.80                             | 39.20                                | 2.50                   | 0.58                       | ±5        | 2022/5/3  |
| 2450            | 22.3              | 1.812                     | 39.140                        | 1.80                             | 39.20                                | 0.67                   | -0.15                      | ±5        | 2022/5/4  |
| 2450            | 22.5              | 1.810                     | 38.794                        | 1.80                             | 39.20                                | 0.56                   | -1.04                      | ±5        | 2022/5/31 |
| 2600            | 22.8              | 1.918                     | 38.808                        | 1.96                             | 39.00                                | -2.14                  | -0.49                      | ±5        | 2022/4/14 |
| 2600            | 22.2              | 1.920                     | 38.822                        | 1.96                             | 39.00                                | -2.04                  | -0.46                      | ±5        | 2022/4/18 |
| 2600            | 22.4              | 1.941                     | 38.112                        | 1.96                             | 39.00                                | -0.97                  | -2.28                      | ±5        | 2022/4/24 |
| 2600            | 22.7              | 1.957                     | 38.474                        | 1.96                             | 39.00                                | -0.15                  | -1.35                      | ±5        | 2022/4/26 |
| 2600            | 22.2              | 1.963                     | 38.891                        | 1.96                             | 39.00                                | 0.15                   | -0.28                      | ±5        | 2022/4/27 |
| 2600            | 22.2              | 2.042                     | 38.561                        | 1.96                             | 39.00                                | 4.18                   | -1.13                      | ±5        | 2022/4/28 |
| 2600            | 22.4              | 1.948                     | 38.595                        | 1.96                             | 39.00                                | -0.61                  | -1.04                      | ±5        | 2022/4/29 |
| 2600            | 22.2              | 1.935                     | 38.974                        | 1.96                             | 39.00                                | -1.28                  | -0.07                      | ±5        | 2022/4/30 |
| 2600            | 22.1              | 1.978                     | 39.041                        | 1.96                             | 39.00                                | 0.92                   | 0.11                       | ±5        | 2022/5/8  |
| 2600            | 22.6              | 2.011                     | 38.786                        | 1.96                             | 39.00                                | 2.60                   | -0.55                      | ±5        | 2022/5/11 |
| 2600            | 22.6              | 1.950                     | 38.620                        | 1.96                             | 39.00                                | -0.51                  | -0.97                      | ±5        | 2022/5/12 |
| 2600            | 22.6              | 1.956                     | 39.069                        | 1.96                             | 39.00                                | -0.20                  | 0.18                       | ±5        | 2022/5/12 |
| 2600            | 22.3              | 1.944                     | 39.051                        | 1.96                             | 39.00                                | -0.82                  | 0.13                       | ±5        | 2022/5/15 |
| 3500            | 22.6              | 2.846                     | 37.560                        | 2.91                             | 37.90                                | -2.20                  | -0.90                      | ±5        | 2022/4/15 |
| 3500            | 22.5              | 2.983                     | 37.750                        | 2.91                             | 37.90                                | 2.51                   | -0.40                      | ±5        | 2022/4/23 |
| 3500            | 22.4              | 2.972                     | 37.695                        | 2.91                             | 37.90                                | 2.13                   | -0.54                      | ±5        | 2022/4/24 |
| 3500            | 22.7              | 2.971                     | 37.695                        | 2.91                             | 37.90                                | 2.10                   | -0.54                      | ±5        | 2022/4/25 |
| 3500            | 22.6              | 2.956                     | 37.629                        | 2.91                             | 37.90                                | 1.58                   | -0.72                      | ±5        | 2022/5/3  |
| 3500            | 22.3              | 3.021                     | 38.254                        | 2.91                             | 37.90                                | 3.81                   | 0.93                       | ±5        | 2022/5/6  |
| 3500            | 22.1              | 2.979                     | 37.807                        | 2.91                             | 37.90                                | 2.37                   | -0.25                      | ±5        | 2022/5/7  |
| 3500            | 22.2              | 3.002                     | 38.819                        | 2.91                             | 37.90                                | 3.16                   | 2.42                       | ±5        | 2022/5/28 |
| 3500            | 22.6              | 2.894                     | 37.485                        | 2.91                             | 37.90                                | -0.55                  | -1.09                      | ±5        | 2022/7/23 |
| 3500            | 22.6              | 2.990                     | 37.632                        | 2.91                             | 37.90                                | 2.75                   | -0.71                      | ±5        | 2022/7/25 |

| Frequency (MHz) | Liquid Temp. (°C) | Conductivity (σ) | Permittivity (ε <sub>r</sub> ) | Conductivity Target (σ) | Permittivity Target (ε <sub>r</sub> ) | Delta (σ) (%) | Delta (ε <sub>r</sub> ) (%) | Limit (%) | Date      |
|-----------------|-------------------|------------------|--------------------------------|-------------------------|---------------------------------------|---------------|-----------------------------|-----------|-----------|
| 3700            | 22.5              | 3.195            | 37.548                         | 3.12                    | 37.70                                 | 2.40          | -0.40                       | ±5        | 2022/4/23 |
| 3700            | 22.4              | 3.184            | 37.493                         | 3.12                    | 37.70                                 | 2.05          | -0.55                       | ±5        | 2022/4/24 |
| 3700            | 22.7              | 3.183            | 37.493                         | 3.12                    | 37.70                                 | 2.02          | -0.55                       | ±5        | 2022/4/25 |
| 3700            | 22.6              | 3.142            | 37.330                         | 3.12                    | 37.70                                 | 0.71          | -0.98                       | ±5        | 2022/5/3  |
| 3700            | 22.3              | 3.236            | 38.052                         | 3.12                    | 37.70                                 | 3.72          | 0.93                        | ±5        | 2022/5/6  |
| 3700            | 22.1              | 3.191            | 37.605                         | 3.12                    | 37.70                                 | 2.28          | -0.25                       | ±5        | 2022/5/7  |
| 3700            | 22.2              | 3.190            | 38.520                         | 3.12                    | 37.70                                 | 2.24          | 2.18                        | ±5        | 2022/5/28 |
| 3900            | 22.5              | 3.408            | 37.360                         | 3.33                    | 37.51                                 | 2.34          | -0.40                       | ±5        | 2022/4/23 |
| 3900            | 22.4              | 3.396            | 37.305                         | 3.33                    | 37.51                                 | 1.98          | -0.55                       | ±5        | 2022/4/24 |
| 3900            | 22.7              | 3.395            | 37.305                         | 3.33                    | 37.51                                 | 1.95          | -0.55                       | ±5        | 2022/4/25 |
| 5250            | 22.1              | 4.628            | 35.950                         | 4.71                    | 35.95                                 | -1.74         | 0.00                        | ±5        | 2022/4/25 |
| 5250            | 22.1              | 4.793            | 36.867                         | 4.71                    | 35.95                                 | 1.76          | 2.55                        | ±5        | 2022/4/26 |
| 5250            | 22.3              | 4.559            | 35.639                         | 4.71                    | 35.95                                 | -3.21         | -0.87                       | ±5        | 2022/4/27 |
| 5250            | 22.7              | 4.691            | 36.726                         | 4.71                    | 35.95                                 | -0.40         | 2.16                        | ±5        | 2022/5/2  |
| 5250            | 22.6              | 4.787            | 36.929                         | 4.71                    | 35.95                                 | 1.63          | 2.72                        | ±5        | 2022/5/4  |
| 5250            | 22.1              | 4.670            | 37.234                         | 4.71                    | 35.95                                 | -0.85         | 3.57                        | ±5        | 2022/5/4  |
| 5250            | 22.6              | 4.730            | 36.057                         | 4.71                    | 35.95                                 | 0.42          | 0.30                        | ±5        | 2022/5/10 |
| 5600            | 22.1              | 5.197            | 36.319                         | 5.07                    | 35.50                                 | 2.50          | 2.31                        | ±5        | 2022/4/26 |
| 5600            | 22.3              | 4.880            | 35.185                         | 5.07                    | 35.50                                 | -3.75         | -0.89                       | ±5        | 2022/4/27 |
| 5600            | 22.7              | 5.086            | 36.178                         | 5.07                    | 35.50                                 | 0.32          | 1.91                        | ±5        | 2022/5/2  |
| 5600            | 22.6              | 5.189            | 36.381                         | 5.07                    | 35.50                                 | 2.35          | 2.48                        | ±5        | 2022/5/4  |
| 5600            | 22.1              | 5.046            | 36.699                         | 5.07                    | 35.50                                 | -0.47         | 3.38                        | ±5        | 2022/5/4  |
| 5600            | 22.6              | 5.068            | 35.623                         | 5.07                    | 35.50                                 | -0.04         | 0.35                        | ±5        | 2022/5/10 |
| 5750            | 22.1              | 5.149            | 35.242                         | 5.22                    | 35.35                                 | -1.36         | -0.31                       | ±5        | 2022/4/25 |
| 5750            | 22.1              | 5.149            | 35.242                         | 5.22                    | 35.35                                 | -1.36         | -0.31                       | ±5        | 2022/4/25 |
| 5750            | 22.1              | 5.354            | 36.127                         | 5.22                    | 35.35                                 | 2.57          | 2.20                        | ±5        | 2022/4/26 |
| 5750            | 22.3              | 4.996            | 34.907                         | 5.22                    | 35.35                                 | -4.29         | -1.25                       | ±5        | 2022/4/27 |
| 5750            | 22.7              | 5.240            | 35.986                         | 5.22                    | 35.35                                 | 0.38          | 1.80                        | ±5        | 2022/5/2  |
| 5750            | 22.6              | 5.347            | 36.189                         | 5.22                    | 35.35                                 | 2.43          | 2.37                        | ±5        | 2022/5/4  |
| 5750            | 22.1              | 5.193            | 36.523                         | 5.22                    | 35.35                                 | -0.52         | 3.32                        | ±5        | 2022/5/4  |
| 5850            | 22.1              | 5.254            | 35.111                         | 5.32                    | 35.25                                 | -1.24         | -0.39                       | ±5        | 2022/4/25 |
| 5850            | 22.1              | 5.479            | 35.993                         | 5.32                    | 35.25                                 | 2.99          | 2.11                        | ±5        | 2022/4/26 |
| 5850            | 22.3              | 5.093            | 34.816                         | 5.32                    | 35.25                                 | -4.27         | -1.23                       | ±5        | 2022/4/27 |
| 5850            | 22.7              | 5.363            | 35.852                         | 5.32                    | 35.25                                 | 0.81          | 1.71                        | ±5        | 2022/5/2  |
| 5850            | 22.6              | 5.472            | 36.054                         | 5.32                    | 35.25                                 | 2.86          | 2.28                        | ±5        | 2022/5/4  |
| 5850            | 22.4              | 5.111            | 34.971                         | 5.32                    | 35.25                                 | -3.93         | -0.79                       | ±5        | 2022/5/7  |
| 6500            | 23.5              | 6.020            | 34.330                         | 6.07                    | 34.50                                 | -0.82         | -0.49                       | ±5        | 2022/4/27 |
| 6500            | 23.5              | 5.870            | 33.760                         | 6.07                    | 34.50                                 | -3.29         | -2.14                       | ±5        | 2022/4/29 |



## 10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

| Test Site | Date      | Frequency (MHz) | Input Power (mW) | Dipole S/N    | Probe S/N       | DAE S/N     | Power Drift (dB) | Measured 1g SAR (W/kg) | Targeted 1g SAR (W/kg) | Normalized 1g SAR (W/kg) | Deviation (%) | Measured 10g SAR (W/kg) | Targeted 10g SAR (W/kg) | Normalized 10g SAR (W/kg) | Deviation (%) |
|-----------|-----------|-----------------|------------------|---------------|-----------------|-------------|------------------|------------------------|------------------------|--------------------------|---------------|-------------------------|-------------------------|---------------------------|---------------|
| SAR08     | 2022/4/12 | 750             | 50               | D750V3-1012   | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.02            | 0.399                  | 8.56                   | 7.98                     | -6.78         | 0.265                   | 5.56                    | 5.3                       | -4.68         |
| SAR08     | 2022/4/16 | 750             | 50               | D750V3-1012   | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.11            | 0.400                  | 8.56                   | 8                        | -6.54         | 0.265                   | 5.56                    | 5.3                       | -4.68         |
| SAR08     | 2022/5/2  | 750             | 50               | D750V3-1012   | EX3DV4 - SN3931 | DAE4 Sn1399 | 0.15             | 0.397                  | 8.56                   | 7.94                     | -7.24         | 0.260                   | 5.56                    | 5.2                       | -6.47         |
| SAR08     | 2022/5/3  | 750             | 50               | D750V3-1012   | EX3DV4 - SN3931 | DAE4 Sn1399 | 0.16             | 0.420                  | 8.56                   | 8.4                      | -1.87         | 0.276                   | 5.56                    | 5.52                      | -0.72         |
| SAR08     | 2022/5/5  | 750             | 250              | D750V3-1012   | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.15            | 1.930                  | 8.56                   | 7.72                     | -9.81         | 1.300                   | 5.56                    | 5.2                       | -6.47         |
| SAR08     | 2022/5/25 | 750             | 250              | D750V3-1012   | ES3DV3 - SN3115 | DAE4 Sn656  | -0.03            | 2.130                  | 8.56                   | 8.52                     | -0.47         | 1.470                   | 5.56                    | 5.88                      | 5.76          |
| SAR08     | 2022/4/11 | 835             | 50               | D835V2-499    | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.06            | 0.484                  | 9.68                   | 9.68                     | 0.00          | 0.315                   | 6.28                    | 6.3                       | 0.32          |
| SAR08     | 2022/4/15 | 835             | 50               | D835V2-4d167  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.05            | 0.455                  | 9.55                   | 9.1                      | -4.71         | 0.297                   | 6.21                    | 5.94                      | -4.35         |
| SAR08     | 2022/4/16 | 835             | 50               | D835V2-4d167  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.05            | 0.458                  | 9.55                   | 9.16                     | -4.08         | 0.299                   | 6.21                    | 5.98                      | -3.70         |
| SAR08     | 2022/4/20 | 835             | 50               | D835V2-499    | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.19            | 0.494                  | 9.68                   | 9.88                     | 2.07          | 0.317                   | 6.28                    | 6.34                      | 0.96          |
| SAR08     | 2022/5/3  | 835             | 50               | D835V2-4d167  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.01            | 0.486                  | 9.55                   | 9.72                     | 1.78          | 0.329                   | 6.21                    | 6.58                      | 5.96          |
| SAR08     | 2022/5/5  | 835             | 50               | D835V2-4d167  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.02            | 0.477                  | 9.55                   | 9.54                     | -0.10         | 0.311                   | 6.21                    | 6.22                      | 0.16          |
| SAR08     | 2022/4/15 | 1750            | 50               | D1750V2-1068  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.04            | 1.840                  | 36.60                  | 36.8                     | 0.55          | 0.981                   | 19.30                   | 19.62                     | 1.66          |
| SAR08     | 2022/4/17 | 1750            | 50               | D1750V2-1068  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.02            | 1.830                  | 36.60                  | 36.6                     | 0.00          | 0.974                   | 19.30                   | 19.48                     | 0.93          |
| SAR08     | 2022/4/21 | 1750            | 250              | D1750V2-1068  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.15            | 8.990                  | 36.60                  | 35.96                    | -1.75         | 4.730                   | 19.30                   | 18.92                     | -1.97         |
| SAR08     | 2022/4/23 | 1750            | 50               | D1750V2-1068  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.02            | 1.700                  | 36.60                  | 34                       | -7.10         | 0.951                   | 19.30                   | 19.02                     | -1.45         |
| SAR08     | 2022/5/1  | 1750            | 250              | D1750V2-1068  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.02            | 9.340                  | 36.60                  | 37.36                    | 2.08          | 5.070                   | 19.30                   | 20.28                     | 5.08          |
| SAR08     | 2022/5/2  | 1750            | 50               | D1750V2-1068  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.12            | 1.730                  | 36.60                  | 34.6                     | -5.46         | 0.967                   | 19.30                   | 19.34                     | 0.21          |
| SAR08     | 2022/5/4  | 1750            | 50               | D1750V2-1068  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.04            | 1.820                  | 36.60                  | 36.4                     | -0.55         | 0.986                   | 19.30                   | 19.72                     | 2.18          |
| SAR12     | 2022/5/9  | 1750            | 250              | D1750V2-1068  | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.05            | 9.060                  | 36.60                  | 36.24                    | -0.98         | 4.830                   | 19.30                   | 19.32                     | 0.10          |
| SAR09     | 2022/5/10 | 1750            | 50               | D1750V2-1068  | ES3DV3 - SN3115 | DAE4 Sn656  | -0.12            | 1.940                  | 36.60                  | 38.8                     | 6.01          | 1.060                   | 19.30                   | 21.2                      | 9.84          |
| SAR09     | 2022/5/11 | 1750            | 250              | D1750V2-1068  | ES3DV3 - SN3270 | DAE4 Sn1512 | -0.11            | 9.330                  | 36.60                  | 37.32                    | 1.97          | 5.040                   | 19.30                   | 20.16                     | 4.46          |
| SAR09     | 2022/5/13 | 1750            | 50               | D1750V2-1068  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.04            | 1.850                  | 36.60                  | 37                       | 1.09          | 0.989                   | 19.30                   | 19.78                     | 2.49          |
| SAR08     | 2022/5/16 | 1750            | 50               | D1750V2-1068  | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.04             | 1.740                  | 36.60                  | 34.8                     | -4.92         | 0.921                   | 19.30                   | 18.42                     | -4.56         |
| SAR08     | 2022/4/13 | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.06            | 1.990                  | 40.60                  | 39.8                     | -1.97         | 1.040                   | 21.10                   | 20.8                      | -1.42         |
| SAR08     | 2022/4/19 | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.01            | 1.960                  | 40.60                  | 39.2                     | -3.45         | 1.070                   | 21.10                   | 21.4                      | 1.42          |
| SAR08     | 2022/4/21 | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.12            | 1.930                  | 40.60                  | 38.6                     | -4.93         | 1.060                   | 21.10                   | 21.2                      | 0.47          |
| SAR08     | 2022/4/22 | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.16            | 2.020                  | 40.60                  | 40.4                     | -0.49         | 1.050                   | 21.10                   | 21                        | -0.47         |
| SAR08     | 2022/4/25 | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.09            | 2.100                  | 40.60                  | 42                       | 3.45          | 1.060                   | 21.10                   | 21.2                      | 0.47          |
| SAR08     | 2022/5/1  | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.01            | 1.900                  | 40.60                  | 38                       | -6.40         | 1.040                   | 21.10                   | 20.8                      | -1.42         |
| SAR08     | 2022/5/4  | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.12            | 1.950                  | 40.60                  | 39                       | -3.94         | 1.020                   | 21.10                   | 20.4                      | -3.32         |
| SAR12     | 2022/5/10 | 1900            | 250              | D1900V2-5d041 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.16             | 9.570                  | 40.60                  | 38.28                    | -5.71         | 4.940                   | 21.10                   | 19.76                     | -6.35         |
| SAR09     | 2022/5/10 | 1900            | 250              | D1900V2-5d041 | ES3DV3 - SN3115 | DAE4 Sn656  | 0.14             | 10.000                 | 40.60                  | 40                       | -1.48         | 5.220                   | 21.10                   | 20.88                     | -1.04         |
| SAR12     | 2022/5/11 | 1900            | 250              | D1900V2-5d041 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.08            | 9.350                  | 40.60                  | 37.4                     | -7.88         | 4.940                   | 21.10                   | 19.76                     | -6.35         |
| SAR09     | 2022/5/11 | 1900            | 250              | D1900V2-5d041 | ES3DV3 - SN3270 | DAE4 Sn1512 | -0.11            | 10.200                 | 40.60                  | 40.8                     | 0.49          | 5.390                   | 21.10                   | 21.56                     | 2.18          |
| SAR09     | 2022/5/14 | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.05            | 1.990                  | 40.60                  | 39.8                     | -1.97         | 1.040                   | 21.10                   | 20.8                      | -1.42         |
| SAR08     | 2022/5/17 | 1900            | 50               | D1900V2-5d041 | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.1              | 1.920                  | 40.60                  | 38.4                     | -5.42         | 0.993                   | 21.10                   | 19.86                     | -5.88         |
| SAR08     | 2022/4/14 | 2300            | 50               | D2300V2-1006  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.13            | 2.360                  | 48.30                  | 47.2                     | -2.28         | 1.140                   | 23.50                   | 22.8                      | -2.98         |
| SAR08     | 2022/4/18 | 2300            | 250              | D2300V2-1006  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.01            | 12.200                 | 48.30                  | 48.8                     | 1.04          | 5.870                   | 23.50                   | 23.48                     | -0.09         |
| SAR08     | 2022/4/24 | 2300            | 50               | D2300V2-1006  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.16            | 2.330                  | 48.30                  | 46.6                     | -3.52         | 1.190                   | 23.50                   | 23.8                      | 1.28          |
| SAR08     | 2022/4/30 | 2300            | 50               | D2300V2-1006  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.05            | 2.350                  | 48.30                  | 47                       | -2.69         | 1.120                   | 23.50                   | 22.4                      | -4.68         |
| SAR09     | 2022/5/11 | 2300            | 250              | D2300V2-1006  | ES3DV3 - SN3270 | DAE4 Sn1512 | 0.03             | 12.500                 | 48.30                  | 50                       | 3.52          | 6.100                   | 23.50                   | 24.4                      | 3.83          |
| SAR09     | 2022/5/13 | 2300            | 50               | D2300V2-1006  | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.13            | 2.410                  | 48.30                  | 48.2                     | -0.21         | 1.160                   | 23.50                   | 23.2                      | -1.28         |
| SAR08     | 2022/5/16 | 2300            | 50               | D2300V2-1006  | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.02             | 2.250                  | 48.30                  | 45                       | -6.83         | 1.080                   | 23.50                   | 21.6                      | -8.09         |



| Test Site | Date      | Frequency (MHz) | Input Power (mW) | Dipole S/N        | Probe S/N       | DAE S/N     | Power Drift (dB) | Measured 1g SAR (W/kg) | Targeted 1g SAR (W/kg) | Normalized 1g SAR (W/kg) | Deviation (%) | Measured 10g SAR (W/kg) | Targeted 10g SAR (W/kg) | Normalized 10g SAR (W/kg) | Deviation (%) |
|-----------|-----------|-----------------|------------------|-------------------|-----------------|-------------|------------------|------------------------|------------------------|--------------------------|---------------|-------------------------|-------------------------|---------------------------|---------------|
| SAR12     | 2022/4/8  | 2450            | 250              | D2450V2-736       | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.12            | 12.500                 | 54.20                  | 50                       | -7.75         | 5.990                   | 25.30                   | 23.96                     | -5.30         |
| SAR11     | 2022/4/28 | 2450            | 250              | D2450V2-929       | ES3DV3 - SN3270 | DAE4 Sn1512 | -0.07            | 13.700                 | 53.10                  | 54.8                     | 3.20          | 6.580                   | 24.70                   | 26.32                     | 6.56          |
| SAR12     | 2022/4/29 | 2450            | 250              | D2450V2-929       | ES3DV3 - SN3115 | DAE4 Sn1424 | -0.01            | 12.000                 | 53.10                  | 48                       | -9.60         | 5.590                   | 24.70                   | 22.36                     | -9.47         |
| SAR12     | 2022/4/30 | 2450            | 50               | D2450V2-736       | ES3DV3 - SN3115 | DAE4 Sn1424 | 0.18             | 2.620                  | 54.20                  | 52.4                     | -3.32         | 1.250                   | 25.30                   | 25                        | -1.19         |
| SAR12     | 2022/5/2  | 2450            | 50               | D2450V2-929       | EX3DV4 - SN7694 | DAE4 Sn1424 | -0.11            | 2.470                  | 53.10                  | 49.4                     | -6.97         | 1.160                   | 24.70                   | 23.2                      | -6.07         |
| SAR09     | 2022/5/3  | 2450            | 50               | D2450V2-929       | EX3DV4 - SN3976 | DAE4 Sn316  | -0.03            | 2.680                  | 53.10                  | 53.6                     | 0.94          | 1.280                   | 24.70                   | 25.6                      | 3.64          |
| SAR09     | 2022/5/4  | 2450            | 50               | D2450V2-929       | EX3DV4 - SN3976 | DAE4 Sn316  | 0.08             | 2.570                  | 53.10                  | 51.4                     | -3.20         | 1.180                   | 24.70                   | 23.6                      | -4.45         |
| SAR08     | 2022/5/31 | 2450            | 50               | D2450V2-929       | EX3DV4 - SN7694 | DAE4 Sn1424 | -0.09            | 2.450                  | 53.10                  | 49                       | -7.72         | 1.130                   | 24.70                   | 22.6                      | -8.50         |
| SAR08     | 2022/4/14 | 2600            | 50               | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.02            | 2.770                  | 58.00                  | 55.4                     | -4.48         | 1.250                   | 25.80                   | 25                        | -3.10         |
| SAR08     | 2022/4/18 | 2600            | 50               | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.02            | 2.770                  | 58.00                  | 55.4                     | -4.48         | 1.250                   | 25.80                   | 25                        | -3.10         |
| SAR08     | 2022/4/24 | 2600            | 250              | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.12            | 14.600                 | 58.00                  | 58.4                     | 0.69          | 6.630                   | 25.80                   | 26.52                     | 2.79          |
| SAR08     | 2022/4/26 | 2600            | 50               | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.12            | 2.840                  | 58.00                  | 56.8                     | -2.07         | 1.300                   | 25.80                   | 26                        | 0.78          |
| SAR08     | 2022/4/27 | 2600            | 50               | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.13            | 2.960                  | 58.00                  | 59.2                     | 2.07          | 1.370                   | 25.80                   | 27.4                      | 6.20          |
| SAR08     | 2022/4/28 | 2600            | 250              | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.19            | 15.400                 | 58.00                  | 61.6                     | 6.21          | 6.720                   | 25.80                   | 26.88                     | 4.19          |
| SAR08     | 2022/4/29 | 2600            | 250              | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.13            | 14.200                 | 58.00                  | 56.8                     | -2.07         | 6.380                   | 25.80                   | 25.52                     | -1.09         |
| SAR08     | 2022/4/30 | 2600            | 250              | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.04            | 14.300                 | 58.00                  | 57.2                     | -1.38         | 6.310                   | 25.80                   | 25.24                     | -2.17         |
| SAR08     | 2022/5/8  | 2600            | 250              | D2600V2-1008      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.07             | 13.800                 | 58.00                  | 55.2                     | -4.83         | 6.270                   | 25.80                   | 25.08                     | -2.79         |
| SAR09     | 2022/5/11 | 2600            | 250              | D2600V2-1008      | ES3DV3 - SN3270 | DAE4 Sn1512 | -0.01            | 15.600                 | 58.00                  | 62.4                     | 7.59          | 7.000                   | 25.80                   | 28                        | 8.53          |
| SAR12     | 2022/5/12 | 2600            | 250              | D2600V2-1008      | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.18             | 14.600                 | 58.00                  | 58.4                     | 0.69          | 6.610                   | 25.80                   | 26.44                     | 2.48          |
| SAR09     | 2022/5/12 | 2600            | 50               | D2600V2-1008      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.02            | 2.820                  | 58.00                  | 56.4                     | -2.76         | 1.280                   | 25.80                   | 25.6                      | -0.78         |
| SAR08     | 2022/5/15 | 2600            | 250              | D2600V2-1008      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.18             | 13.600                 | 58.00                  | 54.4                     | -6.21         | 6.160                   | 25.80                   | 24.64                     | -4.50         |
| SAR12     | 2022/4/15 | 3500            | 100              | D3500V2-1014      | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.03             | 6.200                  | 67.20                  | 62                       | -7.74         | 2.300                   | 25.10                   | 23                        | -8.37         |
| SAR08     | 2022/4/23 | 3500            | 50               | D3500V2-1014      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.05             | 3.130                  | 67.20                  | 62.6                     | -6.85         | 1.200                   | 25.10                   | 24                        | -4.38         |
| SAR08     | 2022/4/24 | 3500            | 50               | D3500V2-1014      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.03             | 3.120                  | 67.20                  | 62.4                     | -7.14         | 1.190                   | 25.10                   | 23.8                      | -5.18         |
| SAR08     | 2022/4/25 | 3500            | 50               | D3500V2-1014      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.03             | 3.120                  | 67.20                  | 62.4                     | -7.14         | 1.190                   | 25.10                   | 23.8                      | -5.18         |
| SAR08     | 2022/5/3  | 3500            | 50               | D3500V2-1014      | EX3DV4 - SN3931 | DAE4 Sn1399 | 0.12             | 3.560                  | 67.20                  | 71.2                     | 5.95          | 1.340                   | 25.10                   | 26.8                      | 6.77          |
| SAR08     | 2022/5/6  | 3500            | 50               | D3500V2-1014      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.03             | 3.170                  | 67.20                  | 63.4                     | -5.65         | 1.210                   | 25.10                   | 24.2                      | -3.59         |
| SAR08     | 2022/5/7  | 3500            | 100              | D3500V2-1014      | EX3DV4 - SN3931 | DAE4 Sn1399 | 0.04             | 6.940                  | 67.20                  | 69.4                     | 3.27          | 2.560                   | 25.10                   | 25.6                      | 1.99          |
| SAR08     | 2022/5/28 | 3500            | 50               | D3500V2-1014      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.12             | 3.150                  | 67.20                  | 63                       | -6.25         | 1.200                   | 25.10                   | 24                        | -4.38         |
| SAR12     | 2022/7/23 | 3500            | 100              | D3500V2-1014      | EX3DV4 - SN7694 | DAE4 Sn1696 | 0.1              | 6.310                  | 67.20                  | 63.1                     | -6.10         | 2.350                   | 25.100                  | 23.5                      | -6.37         |
| SAR12     | 2022/7/25 | 3500            | 100              | D3500V2-1014      | EX3DV4 - SN7694 | DAE4 Sn1696 | 0.12             | 7.330                  | 67.20                  | 73.3                     | 9.08          | 2.710                   | 25.100                  | 27.1                      | 7.97          |
| SAR08     | 2022/4/23 | 3700            | 50               | D3700V2-1022      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.1              | 3.250                  | 68.20                  | 65                       | -4.69         | 1.200                   | 24.70                   | 24                        | -2.83         |
| SAR08     | 2022/4/24 | 3700            | 50               | D3700V2-1022      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.02             | 3.240                  | 68.20                  | 64.8                     | -4.99         | 1.200                   | 24.70                   | 24                        | -2.83         |
| SAR08     | 2022/4/25 | 3700            | 50               | D3700V2-1022      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.04             | 3.240                  | 68.20                  | 64.8                     | -4.99         | 1.200                   | 24.70                   | 24                        | -2.83         |
| SAR08     | 2022/5/3  | 3700            | 100              | D3700V2-1022      | EX3DV4 - SN3931 | DAE4 Sn1399 | 0.12             | 7.330                  | 68.20                  | 73.3                     | 7.48          | 2.650                   | 24.70                   | 26.5                      | 7.29          |
| SAR08     | 2022/5/6  | 3700            | 50               | D3700V2-1022      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.02             | 3.300                  | 68.20                  | 66                       | -3.23         | 1.220                   | 24.70                   | 24.4                      | -1.21         |
| SAR08     | 2022/5/7  | 3700            | 100              | D3700V2-1022      | EX3DV4 - SN3931 | DAE4 Sn1399 | -0.04            | 6.560                  | 68.20                  | 65.6                     | -3.81         | 2.340                   | 24.70                   | 23.4                      | -5.26         |
| SAR08     | 2022/5/28 | 3700            | 50               | D3700V2-1022      | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.16             | 3.250                  | 68.20                  | 65                       | -4.69         | 1.200                   | 24.70                   | 24                        | -2.83         |
| SAR08     | 2022/4/23 | 3900            | 100              | D3900V2-1017-3900 | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.15             | 6.770                  | 69.50                  | 67.7                     | -2.59         | 2.340                   | 24.20                   | 23.4                      | -3.31         |
| SAR08     | 2022/4/24 | 3900            | 100              | D3900V2-1017-3900 | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.06             | 6.740                  | 69.50                  | 67.4                     | -3.02         | 2.330                   | 24.20                   | 23.3                      | -3.72         |
| SAR08     | 2022/4/25 | 3900            | 100              | D3900V2-1017-3900 | EX3DV4 - SN7694 | DAE4 Sn1424 | 0.05             | 6.740                  | 69.50                  | 67.4                     | -3.02         | 2.330                   | 24.20                   | 23.3                      | -3.72         |

| Test Site | Date      | Frequency (MHz) | Input Power (mW) | Dipole S/N        | Probe S/N       | DAE S/N     | Power Drift (dB) | Measured 1g SAR (W/kg) | Targeted 1g SAR (W/kg) | Normalized 1g SAR (W/kg) | Deviation (%) | Measured 10g SAR (W/kg) | Targeted 10g SAR (W/kg) | Normalized 10g SAR (W/kg) | Deviation (%) |
|-----------|-----------|-----------------|------------------|-------------------|-----------------|-------------|------------------|------------------------|------------------------|--------------------------|---------------|-------------------------|-------------------------|---------------------------|---------------|
| SAR14     | 2022/4/25 | 5250            | 50               | D5GHZv2-1128-5250 | EX3DV4 - SN7694 | DAE4 Sn1424 | -0.01            | 3.700                  | 80.00                  | 74                       | -7.50         | 1.040                   | 22.90                   | 20.8                      | -9.17         |
| SAR14     | 2022/4/26 | 5250            | 100              | D5GHZv2-1128-5250 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.09             | 8.290                  | 80.00                  | 82.9                     | 3.62          | 2.360                   | 22.90                   | 23.6                      | 3.06          |
| SAR14     | 2022/4/27 | 5250            | 100              | D5GHZv2-1128-5250 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.09             | 7.880                  | 80.00                  | 78.8                     | -1.50         | 2.240                   | 22.90                   | 22.4                      | -2.18         |
| SAR14     | 2022/5/2  | 5250            | 100              | D5GHZv2-1128-5250 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.09             | 7.450                  | 80.00                  | 74.5                     | -6.88         | 2.120                   | 22.90                   | 21.2                      | -7.42         |
| SAR14     | 2022/5/4  | 5250            | 100              | D5GHZv2-1128-5250 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.09             | 7.600                  | 80.00                  | 76                       | -5.00         | 2.160                   | 22.90                   | 21.6                      | -5.68         |
| SAR13     | 2022/5/4  | 5250            | 100              | D5GHZv2-1128-5250 | EX3DV4 - SN3728 | DAE4 Sn699  | -0.15            | 7.530                  | 80.00                  | 75.3                     | -5.88         | 2.190                   | 22.90                   | 21.9                      | -4.37         |
| SAR12     | 2022/5/10 | 5250            | 50               | D5GHZv2-1128-5250 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.09            | 3.630                  | 80.00                  | 72.6                     | -9.25         | 1.040                   | 22.90                   | 20.8                      | -9.17         |
| SAR14     | 2022/4/26 | 5600            | 100              | D5GHZv2-1128-5600 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.1              | 8.420                  | 82.40                  | 84.2                     | 2.18          | 2.380                   | 23.60                   | 23.8                      | 0.85          |
| SAR14     | 2022/4/27 | 5600            | 50               | D5GHZv2-1128-5600 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.11            | 3.910                  | 82.40                  | 78.2                     | -5.10         | 1.130                   | 23.60                   | 22.6                      | -4.24         |
| SAR14     | 2022/5/2  | 5600            | 50               | D5GHZv2-1128-5600 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.11            | 4.070                  | 82.40                  | 81.4                     | -1.21         | 1.180                   | 23.60                   | 23.6                      | 0.00          |
| SAR14     | 2022/5/4  | 5600            | 100              | D5GHZv2-1128-5600 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.04             | 8.410                  | 82.40                  | 84.1                     | 2.06          | 2.380                   | 23.60                   | 23.8                      | 0.85          |
| SAR13     | 2022/5/4  | 5600            | 100              | D5GHZv2-1128-5600 | EX3DV4 - SN3728 | DAE4 Sn699  | -0.04            | 7.930                  | 82.40                  | 79.3                     | -3.76         | 2.310                   | 23.60                   | 23.1                      | -2.12         |
| SAR12     | 2022/5/10 | 5600            | 50               | D5GHZv2-1128-5600 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.08            | 3.890                  | 82.40                  | 77.8                     | -5.58         | 1.100                   | 23.60                   | 22                        | -6.78         |
| SAR14     | 2022/4/25 | 5750            | 50               | D5GHZv2-1128-5750 | EX3DV4 - SN7694 | DAE4 Sn1424 | -0.04            | 3.870                  | 79.10                  | 77.4                     | -2.15         | 1.100                   | 22.60                   | 22                        | -2.65         |
| SAR14     | 2022/4/25 | 5750            | 50               | D5GHZv2-1128-5750 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.02             | 3.780                  | 79.10                  | 75.6                     | -4.42         | 1.090                   | 22.60                   | 21.8                      | -3.54         |
| SAR14     | 2022/4/26 | 5750            | 100              | D5GHZv2-1128-5750 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.08            | 8.260                  | 79.10                  | 82.6                     | 4.42          | 2.350                   | 22.60                   | 23.5                      | 3.98          |
| SAR14     | 2022/4/27 | 5750            | 100              | D5GHZv2-1128-5750 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.08            | 7.710                  | 79.10                  | 77.1                     | -2.53         | 2.190                   | 22.60                   | 21.9                      | -3.10         |
| SAR14     | 2022/5/2  | 5750            | 50               | D5GHZv2-1128-5750 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.06            | 3.710                  | 79.10                  | 74.2                     | -6.19         | 1.080                   | 22.60                   | 21.6                      | -4.42         |
| SAR14     | 2022/5/4  | 5750            | 100              | D5GHZv2-1128-5750 | EX3DV4 - SN7625 | DAE4 Sn1696 | 0.03             | 7.920                  | 79.10                  | 79.2                     | 0.13          | 2.240                   | 22.60                   | 22.4                      | -0.88         |
| SAR13     | 2022/5/4  | 5750            | 100              | D5GHZv2-1128-5750 | EX3DV4 - SN3728 | DAE4 Sn699  | -0.14            | 7.650                  | 79.10                  | 76.5                     | -3.29         | 2.210                   | 22.60                   | 22.1                      | -2.21         |
| SAR14     | 2022/4/25 | 5850            | 100              | D5GHZv2-1171-5850 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.08            | 8.300                  | 82.30                  | 83                       | 0.85          | 2.330                   | 23.10                   | 23.3                      | 0.87          |
| SAR14     | 2022/4/26 | 5850            | 100              | D5GHZv2-1171-5850 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.05            | 8.650                  | 82.30                  | 86.5                     | 5.10          | 2.450                   | 23.10                   | 24.5                      | 6.06          |
| SAR14     | 2022/4/27 | 5850            | 100              | D5GHZv2-1171-5850 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.08            | 8.050                  | 82.30                  | 80.5                     | -2.19         | 2.260                   | 23.10                   | 22.6                      | -2.16         |
| SAR14     | 2022/5/2  | 5850            | 100              | D5GHZv2-1171-5850 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.08            | 8.470                  | 82.30                  | 84.7                     | 2.92          | 2.380                   | 23.10                   | 23.8                      | 3.03          |
| SAR14     | 2022/5/4  | 5850            | 100              | D5GHZv2-1171-5850 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.02            | 8.640                  | 82.30                  | 86.4                     | 4.98          | 2.420                   | 23.10                   | 24.2                      | 4.76          |
| SAR12     | 2022/5/7  | 5850            | 100              | D5GHZv2-1171-5850 | EX3DV4 - SN7625 | DAE4 Sn1696 | -0.06            | 8.410                  | 82.30                  | 84.1                     | 2.19          | 2.410                   | 23.10                   | 24.1                      | 4.33          |
| SAR13     | 2022/4/27 | 6500            | 100              | D6.5GHZv2-1003    | EX3DV4 - SN3728 | DAE4 Sn699  | 0.03             | 30.300                 | 292.00                 | 303                      | 3.77          | 5.650                   | 53.80                   | 56.5                      | 5.02          |
| SAR13     | 2022/4/29 | 6500            | 100              | D6.5GHZv2-1003    | EX3DV4 - SN3728 | DAE4 Sn699  | 0.02             | 31.800                 | 292.00                 | 318                      | 8.90          | 5.910                   | 53.80                   | 59.1                      | 9.85          |

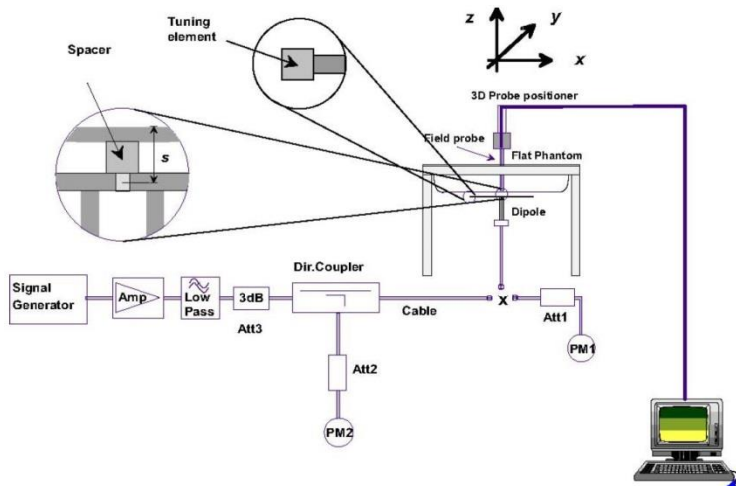


Fig 8.3.1 System Performance Check Setup

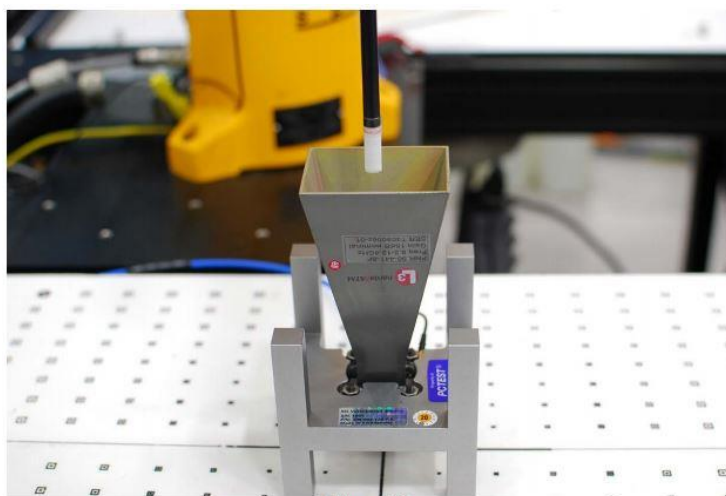


Fig 8.3.2 Setup Photo

### **10.3 PD System Performance Check Results**

The system was verified to be within  $\pm 0.66$  dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

| Test Location | Frequency (GHz) | 5G Verification Source | Probe S/N        | DAE S/N    | Distance (mm) | Measured 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Targeted 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Deviation (dB) | Date     |
|---------------|-----------------|------------------------|------------------|------------|---------------|------------------------------------------------|------------------------------------------------|----------------|----------|
| SAR13-HY      | 10G             | 10GHz_1020             | EUmmWV4 - SN9461 | DAE4 SN699 | 10            | 55.7                                           | 51.7                                           | 0.32           | 2022/4/9 |



**Figure 4-3**  
**System Verification Setup Photo**

System Performance Check Setup

## 11. RF Exposure Positions

### 11.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M,” the left ear reference point (ERP) is marked “LE,” and the right ERP is marked “RE.” Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

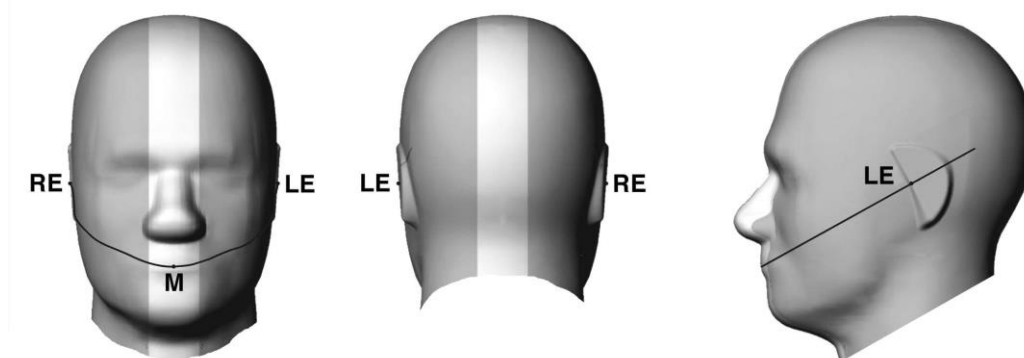


Fig 9.1.1 Front, back, and side views of SAM twin phantom

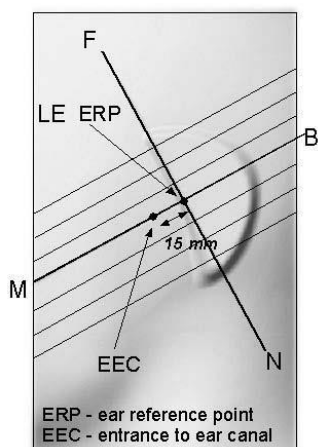


Fig 9.1.2 Close-up side view of phantom showing the ear region.

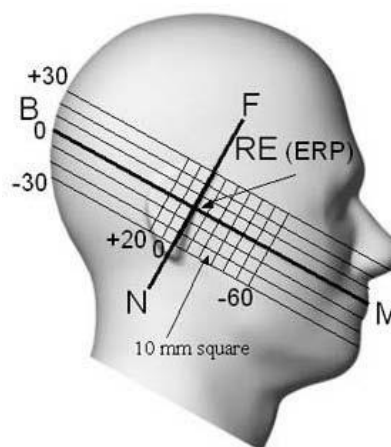


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

## 11.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width  $w_t$  of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width  $w_b$  of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

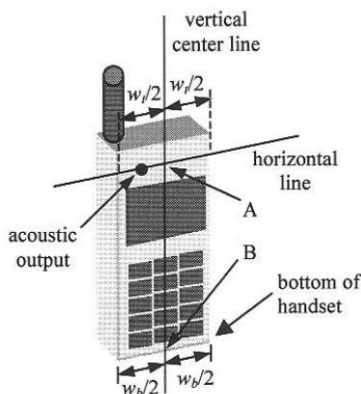


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

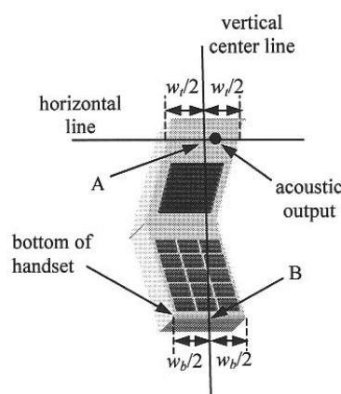


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

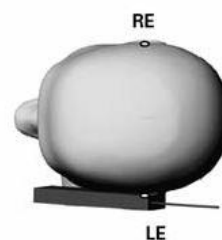
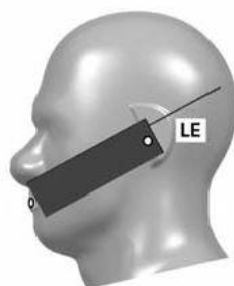
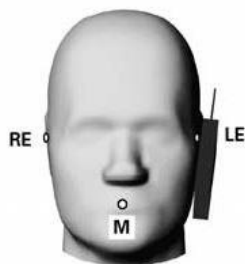


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

### 11.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

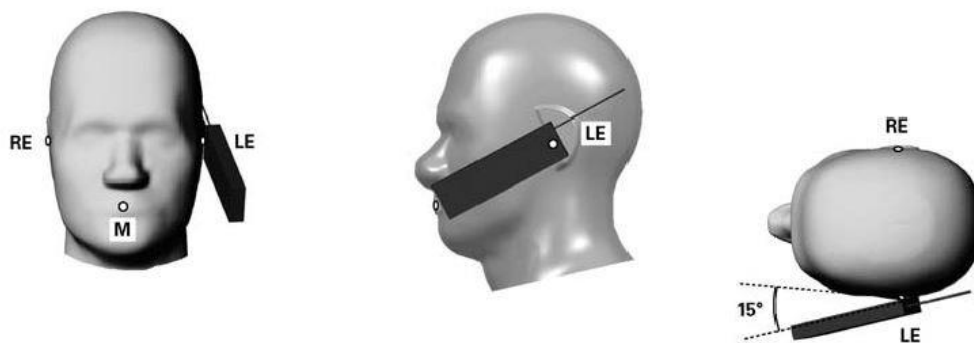


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

### 11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is  $> 1.2 \text{ W/kg}$ , the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

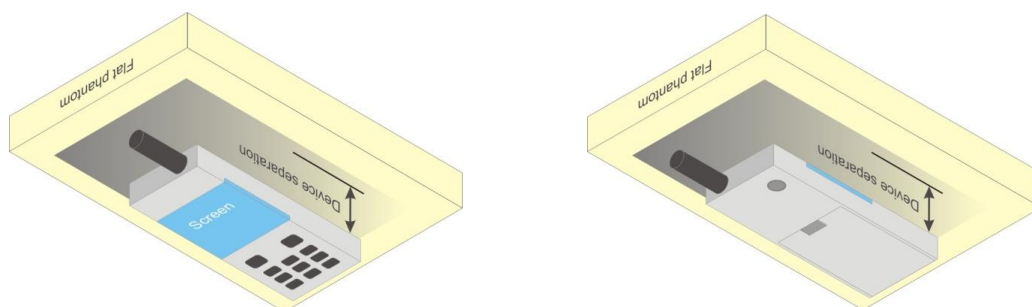


Fig 9.4 Body Worn Position

### **11.5 Product Specific Exposure**

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq 25$  mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.<sup>6</sup> The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

### **11.6 Wireless Router**

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ( $L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$ ) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

## **12. Measurement procedure for output power and SAR**

Detail output power measurement data is in the appendix D

### **<GSM Conducted Power>**

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.

### **<WCDMA Conducted Power>**

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
4. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

A summary of these settings are illustrated below:

**HSDPA Setup Configuration:**

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each
  - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
  - iii. Set RMC 12.2Kbps + HSDPA mode.
  - iv. Set Cell Power = -86 dBm
  - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
  - vi. Select HSDPA Uplink Parameters
  - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
  - viii. Set Ack-Nack Repetition Factor to 3
  - ix. Set CQI Feedback Cycle (k) to 4 ms
  - x. Set CQI Repetition Factor to 2
  - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

**Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH**

| Sub-test | $\beta_c$         | $\beta_d$         | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{hs}$<br>(Note 1,<br>Note 2) | CM (dB)<br>(Note 3) | MPR (dB)<br>(Note 3) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|----------------------|
| 1        | 2/15              | 15/15             | 64                | 2/15              | 4/15                                | 0.0                 | 0.0                  |
| 2        | 12/15<br>(Note 4) | 15/15<br>(Note 4) | 64                | 12/15<br>(Note 4) | 24/15                               | 1.0                 | 0.0                  |
| 3        | 15/15             | 8/15              | 64                | 15/8              | 30/15                               | 1.5                 | 0.5                  |
| 4        | 15/15             | 4/15              | 64                | 15/4              | 30/15                               | 1.5                 | 0.5                  |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ .  
 Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta_{ACK}$  and  $\Delta_{NACK} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ , and  $\Delta_{CQI} = 24/15$  with  $\beta_{hs} = 24/15 * \beta_c$ .  
 Note 3: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.  
 Note 4: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

**Setup Configuration**

## HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting \* :
  - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
  - Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
  - Set Cell Power = -86 dBm
  - Set Channel Type = 12.2k + HSPA
  - Set UE Target Power
  - Power Ctrl Mode= Alternating bits
  - Set and observe the E-TFCI
  - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

**Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH**

| Sub-test | $\beta_c$      | $\beta_d$      | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ (Note 1) | $\beta_{ec}$ | $\beta_{ed}$ (Note 4) (Note 5)               | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Codes) | CM (dB) (Note 2) | MPR (dB) (Note 2) (Note 6) | AG Index (Note 5) | E-TFCI |
|----------|----------------|----------------|----------------|-------------------|-----------------------|--------------|----------------------------------------------|-------------------|----------------------|------------------|----------------------------|-------------------|--------|
| 1        | 11/15 (Note 3) | 15/15 (Note 3) | 64             | 11/15 (Note 3)    | 22/15                 | 209/25       | 1309/225                                     | 4                 | 1                    | 1.0              | 0.0                        | 20                | 75     |
| 2        | 6/15           | 15/15          | 64             | 6/15              | 12/15                 | 12/15        | 94/75                                        | 4                 | 1                    | 3.0              | 2.0                        | 12                | 67     |
| 3        | 15/15          | 9/15           | 64             | 15/9              | 30/15                 | 30/15        | $\beta_{ed1}: 47/15$<br>$\beta_{ed2}: 47/15$ | 4                 | 2                    | 2.0              | 1.0                        | 15                | 92     |
| 4        | 2/15           | 15/15          | 64             | 2/15              | 4/15                  | 2/15         | 56/75                                        | 4                 | 1                    | 3.0              | 2.0                        | 17                | 71     |
| 5        | 15/15          | 0              | -              | -                 | 5/15                  | 5/15         | 47/15                                        | 4                 | 1                    | 1.0              | 0.0                        | 12                | 67     |

Note 1: For sub-test 1 to 4,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ . For sub-test 5,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 5/15$  with  $\beta_{hs} = 5/15 * \beta_c$ .

Note 2: CM = 1 for  $\beta_d/\beta_c = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

## Setup Configuration

**<LTE Conducted Power>****General Note:**

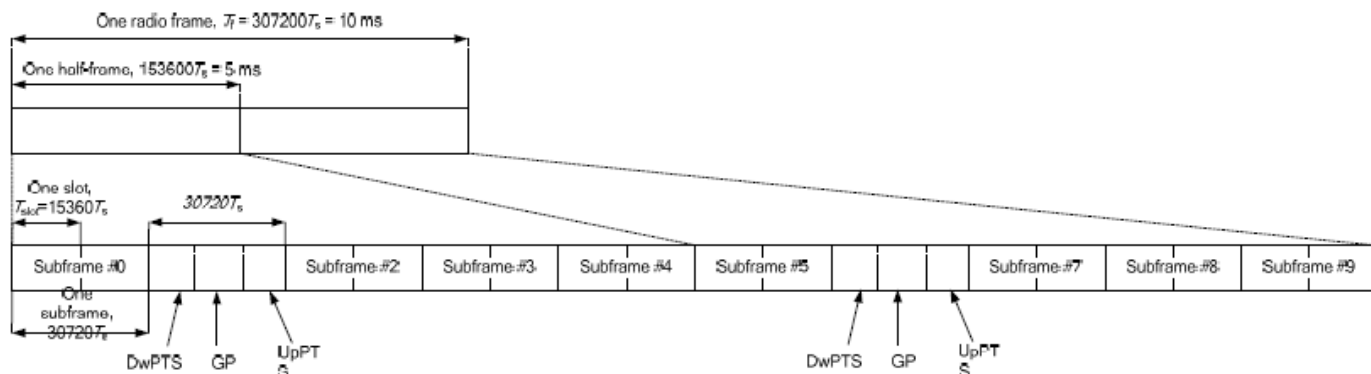
1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

**<TDD LTE SAR Measurement>**

TDD LTE configuration setup for SAR measurement

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

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



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

**Table 4.2-2: Uplink-downlink configurations.**

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

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

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

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

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

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.

**<5G FR1 Note>**
**General Note:**

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
  - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
  - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is  $\leq 1.45$  W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
  - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
  - d. For Pi/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
  - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
  - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.

**<3GPP 38.101 MPR for EN-DC>**
**Table 6.2.2-1 Maximum power reduction (MPR) for power class 3**

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | $\leq 3.5^1$        | $\leq 1.2^1$         | $\leq 0.2^1$         |
|            |           | $\leq 0.5^2$        | $\leq 0.5^2$         | 0 <sup>2</sup>       |
|            | QPSK      | $\leq 1$            |                      | 0                    |
|            | 16 QAM    | $\leq 2$            |                      | $\leq 1$             |
|            | 64 QAM    | $\leq 2.5$          |                      |                      |
| CP-OFDM    | 256 QAM   | $\leq 4.5$          |                      |                      |
|            | QPSK      | $\leq 3$            |                      | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3$            |                      | $\leq 2$             |
|            | 64 QAM    | $\leq 3.5$          |                      |                      |
|            | 256 QAM   | $\leq 6.5$          |                      |                      |

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

**Table 6.2.2-2 Maximum power reduction (MPR) for power class 2**

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | $\leq 3.5$          | $\leq 0.5$           | 0                    |
|            | QPSK      | $\leq 3.5$          | $\leq 1$             | 0                    |
|            | 16 QAM    | $\leq 3.5$          | $\leq 2$             | $\leq 1$             |
|            | 64 QAM    | $\leq 3.5$          | $\leq 2.5$           |                      |
|            | 256 QAM   | $\leq 4.5$          |                      |                      |
| CP-OFDM    | QPSK      | $\leq 3.5$          | $\leq 3$             | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3.5$          | $\leq 3$             | $\leq 2$             |
|            | 64 QAM    | $\leq 3.5$          |                      |                      |
|            | 256 QAM   | $\leq 6.5$          |                      |                      |

**<WLAN Note>**

1. The SISO mode support only when the Antenna 3 and 4 is transmitting on 802.11b mode, other support MIMO mode.
2. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
3. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
4. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
5. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
6. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
7. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
8. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
9. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
10. When SAR testing for 802.11ax is required
  - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
  - b. Otherwise, consider the fully allocated channel for SAR testing
  - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel

**<Bluetooth>**

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle list below are considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation, for the duty cycle figure and output power include in appendix D.

|           | Power Index | Antenna | Duty Cycle % |
|-----------|-------------|---------|--------------|
| Bluetooth | 1           | Ant 4   | 77.22        |
|           | 1           | Ant 3   | 77.22        |
|           | 1           | Ant 4+3 | 77.22        |
|           | 2/3         | Ant 4   | 77.22        |
|           | 2/3         | Ant 3   | 77.22        |
|           | 2/3         | Ant 4+3 | 77.22        |
|           | 4           | Ant 4   | 77.22        |
|           | 4           | Ant 3   | 77.22        |
|           | 4           | Ant 4+3 | 77.22        |

### 13. DL/UL carrier aggregation

#### <LTE Carrier Aggregation combinations>

**General Note:**

1. This device supports Carrier Aggregation on downlink only for inter and intra band. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.

| 2CC Downlink Carrier Aggregation |             |                                 | 3CC Downlink Carrier Aggregation |               |                                 | 4CC Downlink Carrier Aggregation |                   |                                 |
|----------------------------------|-------------|---------------------------------|----------------------------------|---------------|---------------------------------|----------------------------------|-------------------|---------------------------------|
| Number                           | Combination | Covered by Measurement Superset | Number                           | Combination   | Covered by Measurement Superset | Number                           | Combination       | Covered by Measurement Superset |
| 1                                | CA_2A-12A   | 3CC-1                           | 1                                | CA_2A-12A-30A | 4CC-1                           | 1                                | CA_2A-12A-30A-66A | 5CC-1                           |
| 2                                | CA_2A-13A   | 3CC-5                           | 2                                | CA_2A-12A-66A | 4CC-1                           | 2                                | CA_2A-12A-66A-66A | 4CC-1                           |
| 3                                | CA_2A-14A   | 3CC-8                           | 3                                | CA_2A-12A-12A | 3CC-1                           | 3                                | CA_2A-12A-66C     | 4CC-1                           |
| 4                                | CA_2A-17A   | 3CC-29                          | 4                                | CA_2A-12B     | 3CC-1                           | 4                                | CA_2A-12B-66A     | 4CC-1                           |
| 5                                | CA_2A-29A   | 3CC-9                           | 5                                | CA_2A-13A-46A | 4CC-7                           | 5                                | CA_2A-13A-46C     | 4CC-7                           |
| 6                                | CA_2A-2A    | 2CC-1                           | 6                                | CA_2A-13A-48A | 4CC-7                           | 6                                | CA_2A-13A-48A-48A | 4CC-7                           |
| 7                                | CA_2A-30A   | 3CC-1                           | 7                                | CA_2A-13A-66A | 4CC-7                           | 7                                | CA_2A-13A-48A-66A | 5CC-4                           |
| 8                                | CA_2A-46A   | 3CC-5                           | 8                                | CA_2A-14A-30A | 4CC-12                          | 8                                | CA_2A-13A-48C     | 4CC-7                           |
| 9                                | CA_2A-48A   | 3CC-6                           | 9                                | CA_2A-29A-30A | 4CC-14                          | 9                                | CA_2A-13A-66A-66A | 4CC-7                           |
| 10                               | CA_2A-4A    | 3CC-16                          | 10                               | CA_2A-29A-66A | 4CC-14                          | 10                               | CA_2A-13A-66B     | 4CC-7                           |
| 11                               | CA_2A-5A    | 3CC-17                          | 11                               | CA_2A-2A-12A  | 3CC-1                           | 11                               | CA_2A-13A-66C     | 4CC-7                           |
| 12                               | CA_2A-66A   | 3CC-2                           | 12                               | CA_2A-2A-13A  | 3CC-5                           | 12                               | CA_2A-14A-30A-66A | 5CC-12                          |
| 13                               | CA_2A-71A   | 3CC-19                          | 13                               | CA_2A-2A-29A  | 3CC-9                           | 13                               | CA_2A-14A-66A-66A | 4CC-12                          |
| 14                               | CA_2A-7A    | 3CC-20                          | 14                               | CA_2A-2A-30A  | 3CC-1                           | 14                               | CA_2A-29A-30A-66A | 5CC-19                          |
| 15                               | CA_2C       | 2CC-1                           | 15                               | CA_2A-2A-46A  | 3CC-5                           | 15                               | CA_2A-2A-12A-30A  | 4CC-1                           |
| 16                               | CA_4A-12A   | 3CC-27                          | 16                               | CA_2A-2A-4A   | 3CC-34                          | 16                               | CA_2A-2A-12A-66A  | 4CC-1                           |
| 17                               | CA_4A-13A   | 3CC-28                          | 17                               | CA_2A-2A-5A   | 3CC-34                          | 17                               | CA_2A-2A-12B      | 4CC-1                           |
| 18                               | CA_4A-17A   | 3CC-29                          | 18                               | CA_2A-2A-66A  | 3CC-2                           | 18                               | CA_2A-2A-13A-66A  | 4CC-7                           |
| 19                               | CA_4A-29A   | 3CC-30                          | 19                               | CA_2A-2A-71A  | 3CC-35                          | 19                               | CA_2A-2A-29A-30A  | 4CC-14                          |
| 20                               | CA_4A-30A   | 3CC-31                          | 20                               | CA_2A-2A-7A   | 3CC-36                          | 20                               | CA_2A-2A-30A-66A  | 4CC-1                           |
| 21                               | CA_4A-46A   | 3CC-32                          | 21                               | CA_2A-30A-66A | 4CC-1                           | 21                               | CA_2A-2A-46C      | 4CC-84                          |
| 22                               | CA_4A-48A   | 3CC-64                          | 22                               | CA_2A-46A-66A | 4CC-84                          | 22                               | CA_2A-2A-4A-12A   | 4CC-45                          |
| 23                               | CA_4A-4A    | 2CC-16                          | 23                               | CA_2A-46C     | 3CC-5                           | 23                               | CA_2A-2A-4A-13A   | 5CC-22                          |
| 24                               | CA_4A-5A    | 3CC-34                          | 24                               | CA_2A-48A-48A | 3CC-6                           | 24                               | CA_2A-2A-4A-4A    | 4CC-22                          |
| 25                               | CA_4A-71A   | 3CC-35                          | 25                               | CA_2A-48A-66A | 4CC-7                           | 25                               | CA_2A-2A-4A-5A    | 4CC-53                          |
| 26                               | CA_4A-7A    | 3CC-36                          | 26                               | CA_2A-48C     | 3CC-6                           | 26                               | CA_2A-2A-4A-71A   |                                 |
| 27                               | CA_5A-25A   |                                 | 27                               | CA_2A-4A-12A  | 4CC-45                          | 27                               | CA_2A-2A-5A-30A   | 4CC-53                          |
| 28                               | CA_5A-30A   | 3CC-37                          | 28                               | CA_2A-4A-13A  | 4CC-23                          | 28                               | CA_2A-2A-5A-5A    | 3CC-27                          |
| 29                               | CA_5A-38A   | 3CC-95                          | 29                               | CA_2A-4A-17A  |                                 | 29                               | CA_2A-2A-5A-66A   | 4CC-59                          |
| 30                               | CA_5A-41A   |                                 | 30                               | CA_2A-4A-29A  | 4CC-48                          | 30                               | CA_2A-2A-5B       | 3CC-27                          |
| 31                               | CA_5A-46A   | 3CC-38                          | 31                               | CA_2A-4A-30A  | 4CC-48                          | 31                               | CA_2A-2A-66A-66A  | 4CC-1                           |
| 32                               | CA_5A-48A   | 3CC-39                          | 32                               | CA_2A-4A-46A  |                                 | 32                               | CA_2A-2A-66A-71A  | 4CC-226                         |
| 33                               | CA_5A-5A    | 2CC-24                          | 33                               | CA_2A-4A-4A   | 3CC-16                          | 33                               | CA_2A-2A-66B      | 4CC-1                           |
| 34                               | CA_5A-66A   | 3CC-40                          | 34                               | CA_2A-4A-5A   | 4CC-53                          | 34                               | CA_2A-2A-66C      | 4CC-1                           |
| 35                               | CA_5A-7A    | 3CC-41                          | 35                               | CA_2A-4A-71A  | 4CC-52                          | 35                               | CA_2A-2A-7A-12A   | 4CC-56                          |
| 36                               | CA_5B       | 2CC-24                          | 36                               | CA_2A-4A-7A   | 4CC-56                          | 36                               | CA_2A-2A-7A-66A   | 4CC-76                          |
| 37                               | CA_5C       | 2CC-24                          | 37                               | CA_2A-5A-30A  | 4CC-59                          | 37                               | CA_2A-30A-66A-66A | 4CC-1                           |
| 38                               | CA_7A-12A   | 3CC-47                          | 38                               | CA_2A-5A-46A  | 4CC-60                          | 38                               | CA_2A-46A-66A-66A | 4CC-84                          |
| 39                               | CA_7A-13A   | 3CC-48                          | 39                               | CA_2A-5A-48A  | 4CC-62                          | 39                               | CA_2A-46C-66A     | 4CC-84                          |
| 40                               | CA_7A-26A   | 3CC-105                         | 40                               | CA_2A-5A-66A  | 4CC-59                          | 40                               | CA_2A-46D         | 4CC-84                          |
| 41                               | CA_7A-29A   | 3CC-49                          | 41                               | CA_2A-5A-7A   | 4CC-227                         | 41                               | CA_2A-48A-48A-66A | 4CC-62                          |
| 42                               | CA_7A-32A   | 3CC-189                         | 42                               | CA_2A-5B      | 3CC-34                          | 42                               | CA_2A-48A-48C     | 4CC-62                          |
| 43                               | CA_7A-46A   | 3CC-52                          | 43                               | CA_2A-66A-66A | 3CC-2                           | 43                               | CA_2A-48C-66A     | 4CC-62                          |



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|    |            |         |    |               |         |    |                   |         |
|----|------------|---------|----|---------------|---------|----|-------------------|---------|
| 44 | CA_7A-66A  | 3CC-50  | 44 | CA_2A-66A-71A | 4CC-71  | 44 | CA_2A-48D         | 4CC-62  |
| 45 | CA_7A-7A   | 2CC-35  | 45 | CA_2A-66B     | 3CC-2   | 45 | CA_2A-4A-12A-30A  |         |
| 46 | CA_7A-38A  | 3CC-189 | 46 | CA_2A-66C     | 3CC-2   | 46 | CA_2A-4A-12A-12A  | 4CC-45  |
| 47 | CA_7B      | 2CC-35  | 47 | CA_2A-7A-12A  | 4CC-76  | 47 | CA_2A-4A-12B      | 4CC-45  |
| 48 | CA_7C      | 2CC-35  | 48 | CA_2A-7A-13A  | 4CC-82  | 48 | CA_2A-4A-29A-30A  |         |
| 49 | CA_12A-12A | 2CC-50  | 49 | CA_2A-7A-29A  | 4CC-78  | 49 | CA_2A-4A-4A-12A   | 4CC-45  |
| 50 | CA_12A-25A |         | 50 | CA_2A-7A-66A  | 4CC-76  | 50 | CA_2A-4A-4A-13A   | 4CC-23  |
| 51 | CA_12A-30A | 3CC-1   | 51 | CA_2A-7A-7A   | 3CC-36  | 51 | CA_2A-4A-4A-5A    | 4CC-53  |
| 52 | CA_12A-46A | 3CC-115 | 52 | CA_2A-7A-46A  | 4CC-84  | 52 | CA_2A-4A-4A-71A   | 4CC-26  |
| 53 | CA_12A-66A | 3CC-2   | 53 | CA_2A-7C      | 3CC-36  | 53 | CA_2A-4A-5A-30A   |         |
| 54 | CA_12B     | 2CC-50  | 54 | CA_2C-12A     | 3CC-1   | 54 | CA_2A-4A-5A-5A    | 4CC-53  |
| 55 | CA_13A-46A | 3CC-5   | 55 | CA_2C-29A     | 3CC-9   | 55 | CA_2A-4A-5B       | 4CC-53  |
| 56 | CA_13A-48A | 3CC-6   | 56 | CA_2C-30A     | 3CC-9   | 56 | CA_2A-4A-7A-12A   |         |
| 57 | CA_13A-66A | 3CC-7   | 57 | CA_2C-5A      | 3CC-34  | 57 | CA_2A-4A-7A-7A    | 4CC-56  |
| 58 | CA_14A-30A | 3CC-8   | 58 | CA_2C-66A     | 3CC-2   | 58 | CA_2A-4A-7C       | 4CC-56  |
| 59 | CA_14A-66A | 3CC-127 | 59 | CA_4A-12A-12A | 3CC-27  | 59 | CA_2A-5A-30A-66A  | 5CC-45  |
| 60 | CA_25A-25A | 2CC-61  | 60 | CA_4A-12A-30A | 4CC-45  | 60 | CA_2A-5A-46C      | 4CC-193 |
| 61 | CA_25A-26A | 3CC-130 | 61 | CA_4A-12B     | 3CC-27  | 61 | CA_2A-5A-48A-48A  | 4CC-62  |
| 62 | CA_25A-41A | 3CC-131 | 62 | CA_4A-29A-30A | 4CC-48  | 62 | CA_2A-5A-48A-66A  | 5CC-48  |
| 63 | CA_25A-46A | 3CC-134 | 63 | CA_4A-46C     | 3CC-32  | 63 | CA_2A-5A-48C      | 4CC-62  |
| 64 | CA_25A-48A | 3CC-134 | 64 | CA_4A-48C     | 3CC-180 | 64 | CA_2A-5A-5A-66A   | 4CC-62  |
| 65 | CA_26A-41A | 3CC-137 | 65 | CA_4A-4A-12A  | 3CC-27  | 65 | CA_2A-5A-66A-66A  | 4CC-62  |
| 66 | CA_26A-46A |         | 66 | CA_4A-4A-13A  | 3CC-28  | 66 | CA_2A-5A-66B      | 4CC-62  |
| 67 | CA_29A-30A | 3CC-9   | 67 | CA_4A-4A-29A  | 3CC-30  | 67 | CA_2A-5A-66C      | 4CC-62  |
| 68 | CA_29A-66A | 3CC-10  | 68 | CA_4A-4A-30A  | 3CC-31  | 68 | CA_2A-5B-30A      | 4CC-59  |
| 69 | CA_30A-66A | 3CC-21  | 69 | CA_4A-4A-5A   | 3CC-34  | 69 | CA_2A-5B-66A      | 4CC-62  |
| 70 | CA_38A-38A | 2CC-71  | 70 | CA_4A-4A-71A  | 3CC-35  | 70 | CA_2A-66A-66A-66A | 4CC-62  |
| 71 | CA_38A-46A |         | 71 | CA_4A-4A-7A   | 3CC-36  | 71 | CA_2A-66A-66A-71A | 4CC-32  |
| 72 | CA_38C     | 2CC-71  | 72 | CA_4A-5A-30A  | 4CC-53  | 72 | CA_2A-66A-66B     | 4CC-62  |
| 73 | CA_41A-41A | 3CC-131 | 73 | CA_4A-5B      | 3CC-34  | 73 | CA_2A-66A-66C     | 4CC-62  |
| 74 | CA_41C     | 2CC-73  | 74 | CA_4A-7A-12A  | 4CC-56  | 74 | CA_2A-66C-71A     | 4CC-71  |
| 75 | CA_46A-66A | 3CC-22  | 75 | CA_4A-7A-7A   | 3CC-36  | 75 | CA_2A-66D         | 4CC-62  |
| 76 | CA_46A-71A | 3CC-176 | 76 | CA_4A-7C      | 3CC-36  | 76 | CA_2A-7A-12A-66A  | 5CC-32  |
| 77 | CA_48A-48A | 2CC-79  | 77 | CA_4C-12A     | 3CC-27  | 77 | CA_2A-7A-12B      | 4CC-76  |
| 78 | CA_48A-66A | 3CC-25  | 78 | CA_4C-5A      | 3CC-34  | 78 | CA_2A-7A-29A-66A  | 5CC-56  |
| 79 | CA_48C     | 2CC-79  | 79 | CA_4C-7A      | 3CC-36  | 79 | CA_2A-7A-66A-66A  | 4CC-76  |
| 80 | CA_66A-46A | 3CC-22  | 80 | CA_5A-30A-66A | 4CC-59  | 80 | CA_2A-7A-7A-29A   | 4CC-78  |
| 81 | CA_66A-66A | 2CC-79  | 81 | CA_5A-46A-66A | 4CC-106 | 81 | CA_2A-7A-7A-66A   | 4CC-76  |
| 82 | CA_66A-71A | 3CC-44  | 82 | CA_5A-46C     | 3CC-38  | 82 | CA_2A-7A-7A-13A   | 4CC-190 |
| 83 | CA_66B     | 2CC-79  | 83 | CA_5A-48A-48A | 3CC-39  | 83 | CA_2A-7A-7A-46A   | 4CC-84  |
| 84 | CA_66C     | 2CC-79  | 84 | CA_5A-48A-66A | 4CC-62  | 84 | CA_2A-7A-46A-66A  |         |
| 85 | CA_48A-71A | 3CC-165 | 85 | CA_5A-48C     | 3CC-39  | 85 | CA_2A-7A-46C      | 4CC-84  |
| 86 | CA_2A-26A  | 3CC-167 | 86 | CA_5A-5A-66A  | 3CC-40  | 86 | CA_2A-7C-66A      | 4CC-76  |
| 87 | CA_4A-41A  |         | 87 | CA_5A-66A-66A | 3CC-40  | 87 | CA_2A-7C-13A      | 4CC-82  |
| 88 | CA_46A-48A | 3CC-188 | 88 | CA_5A-66B     | 3CC-40  | 88 | CA_2A-7C-29A      | 4CC-78  |
| 89 | CA_25C     | 2CC-97  | 89 | CA_5A-66C     | 3CC-40  | 89 | CA_2C-12A-30A     | 4CC-1   |
| 90 | CA_26A-66A | 3CC-168 | 90 | CA_5A-7A-46A  | 4CC-194 | 90 | CA_2C-29A-30A     | 4CC-14  |
| 91 | CA_13A-4A  | 3CC-28  | 91 | CA_5A-7A-7A   | 3CC-41  | 91 | CA_2C-5A-66A      | 4CC-62  |
| 92 | CA_13A-2A  | 3CC-5   | 92 | CA_5A-7A-66A  | 4CC-119 | 92 | CA_2C-66A-66A     | 4CC-1   |
| 93 | CA_7A-71A  | 3CC-194 | 93 | CA_5A-7C      | 3CC-41  | 93 | CA_4A-13A-46C     |         |
| 94 | CA_12A-48A | 3CC-191 | 94 | CA_5B-30A     | 3CC-37  | 94 | CA_4A-46D         | 4CC-93  |
| 95 | CA_41A-46A | 3CC-192 | 95 | CA_5B-38A     |         | 95 | CA_4A-48D         | 4CC-99  |
| 96 | CA_25A-66A | 3CC-203 | 96 | CA_5B-46A     | 3CC-38  | 96 | CA_4A-4A-12A-30A  | 4CC-45  |
| 97 | CA_7A-25A  | 3CC-203 | 97 | CA_5B-66A     | 3CC-40  | 97 | CA_4A-4A-12B      | 4CC-96  |
| 6  |            |         | 98 | CA_7A-12A-66A | 4CC-126 | 98 | CA_4A-4A-29A-30A  | 4CC-48  |
|    |            |         | 99 | CA_7A-12B     | 3CC-47  | 99 | CA_4A-4A-48A-48A  | 5CC-64  |



|  |  |  |     |                |         |     |                    |         |
|--|--|--|-----|----------------|---------|-----|--------------------|---------|
|  |  |  | 100 | CA_7A-29A-66A  | 4CC-129 | 100 | CA_4A-4A-5A-30A    | 4CC-53  |
|  |  |  | 101 | CA_7A-46A-66A  | 4CC-242 | 101 | CA_4A-4A-5A-5A     | 4CC-100 |
|  |  |  | 102 | CA_7A-46C      | 3CC-52  | 102 | CA_4A-4A-5B        | 4CC-100 |
|  |  |  | 103 | CA_7A-66A-66A  | 3CC-50  | 103 | CA_4A-5B-30A       | 4CC-100 |
|  |  |  | 104 | CA_7A-7A-13A   | 3CC-48  | 104 | CA_4A-7A-12B       | 4CC-56  |
|  |  |  | 105 | CA_7A-7A-26A   | 3CC-167 | 105 | CA_5A-30A-66A-66A  | 4CC-59  |
|  |  |  | 106 | CA_7A-7A-29A   | 3CC-49  | 106 | CA_5A-46C-66A      | 4CC-193 |
|  |  |  | 107 | CA_7A-7A-46A   | 3CC-52  | 107 | CA_5A-46D          | 4CC-106 |
|  |  |  | 108 | CA_7A-7A-66A   | 3CC-50  | 108 | CA_5A-48A-48A-66A  | 4CC-62  |
|  |  |  | 109 | CA_7C-29A      | 3CC-49  | 109 | CA_5A-48A-48C      | 4CC-108 |
|  |  |  | 110 | CA_7C-46A      | 3CC-52  | 110 | CA_5A-48C-66A      | 4CC-108 |
|  |  |  | 111 | CA_7C-66A      | 3CC-50  | 111 | CA_5A-48D          | 4CC-108 |
|  |  |  | 112 | CA_7C-13A      | 3CC-48  | 112 | CA_5A-5A-66A-66A   | 4CC-108 |
|  |  |  | 113 | CA_12A-12A-66A | 3CC-2   | 113 | CA_5A-5A-66B       | 4CC-108 |
|  |  |  | 114 | CA_12A-30A-66A | 4CC-1   | 114 | CA_5A-5A-66C       | 4CC-108 |
|  |  |  | 115 | CA_12A-46C     | 4CC-136 | 115 | CA_5A-66A-66A-66A  | 4CC-108 |
|  |  |  | 116 | CA_12A-66A-66A | 3CC-2   | 116 | CA_5A-66A-66B      | 4CC-108 |
|  |  |  | 117 | CA_12A-66C     | 3CC-2   | 117 | CA_5A-66A-66C      | 4CC-108 |
|  |  |  | 118 | CA_12B-66A     | 3CC-2   | 118 | CA_5A-66D          | 4CC-108 |
|  |  |  | 119 | CA_13A-46A-66A | 4CC-138 | 119 | CA_5A-7A-66A-66A   | 4CC-205 |
|  |  |  | 120 | CA_13A-46C     | 3CC-5   | 120 | CA_5A-7C-66A       | 4CC-119 |
|  |  |  | 121 | CA_13A-48A-48A | 3CC-6   | 121 | CA_5B-30A-66A      | 4CC-105 |
|  |  |  | 122 | CA_13A-48A-66A | 4CC-7   | 122 | CA_5B-46C          | 4CC-106 |
|  |  |  | 123 | CA_13A-48C     | 3CC-6   | 123 | CA_5B-66A-66A      | 4CC-105 |
|  |  |  | 124 | CA_13A-66A-66A | 3CC-7   | 124 | CA_5B-66B          | 4CC-105 |
|  |  |  | 125 | CA_13A-66B     | 3CC-7   | 125 | CA_5B-66C          | 4CC-105 |
|  |  |  | 126 | CA_13A-66C     | 3CC-7   | 126 | CA_7A-12A-66A-66A  | 4CC-76  |
|  |  |  | 127 | CA_14A-30A-66A | 4CC-12  | 127 | CA_7A-12B-66A      | 4CC-126 |
|  |  |  | 128 | CA_14A-66A-66A | 3CC-127 | 128 | CA_7A-46D          | 4CC-130 |
|  |  |  | 129 | CA_25A-25A-25A | 3CC-134 | 129 | CA_7A-7A-29A-66A   | 4CC-78  |
|  |  |  | 130 | CA_25A-25A-26A |         | 130 | CA_7A-7A-46C       | 4CC-84  |
|  |  |  | 131 | CA_25A-25A-41A | 4CC-151 | 131 | CA_7A-7A-66A-66A   | 4CC-126 |
|  |  |  | 132 | CA_25A-25C     | 3CC-134 | 132 | CA_7C-29A-66A      | 4CC-129 |
|  |  |  | 133 | CA_25A-41C     | 3CC-131 | 133 | CA_7C-46C          | 4CC-130 |
|  |  |  | 134 | CA_25A-46A-48A |         | 134 | CA_7C-66A-66A      | 4CC-126 |
|  |  |  | 135 | CA_25C-26A     | 3CC-130 | 135 | CA_12A-30A-66A-66A | 4CC-1   |
|  |  |  | 136 | CA_25D         | 3CC-134 | 136 | CA_12A-46D         | 5CC-80  |
|  |  |  | 137 | CA_26A-41C     |         | 137 | CA_12B-66A-66A     | 4CC-135 |
|  |  |  | 138 | CA_29A-30A-66A | 4CC-14  | 138 | CA_13A-46C-66A     | 4CC-192 |
|  |  |  | 139 | CA_29A-66A-66A | 3CC-138 | 139 | CA_13A-46D         | 4CC-138 |
|  |  |  | 140 | CA_30A-66A-66A | 3CC-138 | 140 | CA_13A-48A-48A-66A | 4CC-7   |
|  |  |  | 141 | CA_41A-41C     | 3CC-131 | 141 | CA_13A-48A-48C     | 4CC-140 |
|  |  |  | 142 | CA_41D         | 3CC-131 | 142 | CA_13A-48A-66B     | 4CC-140 |
|  |  |  | 143 | CA_46A-66A-66A | 3CC-22  | 143 | CA_13A-48A-66C     | 4CC-140 |
|  |  |  | 144 | CA_46A-66C     | 3CC-22  | 144 | CA_13A-48C-66A     | 4CC-140 |
|  |  |  | 145 | CA_46C-66A     | 3CC-22  | 145 | CA_13A-48D         | 4CC-140 |
|  |  |  | 146 | CA_48A-48A-66A | 3CC-25  | 146 | CA_13A-66A-66A-66A | 4CC-140 |
|  |  |  | 147 | CA_48A-48C     | 3CC-25  | 147 | CA_13A-66A-66B     | 4CC-140 |
|  |  |  | 148 | CA_48A-66A-66A | 3CC-25  | 148 | CA_13A-66A-66C     | 4CC-140 |
|  |  |  | 149 | CA_48A-66B     | 3CC-25  | 149 | CA_13A-66D         | 4CC-140 |
|  |  |  | 150 | CA_48A-66C     | 3CC-25  | 150 | CA_14A-30A-66A-66A | 4CC-12  |
|  |  |  | 151 | CA_48C-66A     | 3CC-25  | 151 | CA_25A-25A-41C     | 5CC-90  |
|  |  |  | 152 | CA_48D         | 3CC-25  | 152 | CA_25A-41D         | 4CC-151 |
|  |  |  | 153 | CA_66A-46C     | 3CC-22  | 153 | CA_29A-30A-66A-66A | 4CC-14  |
|  |  |  | 154 | CA_66A-66A-66A | 3CC-22  | 154 | CA_41A-41A-41C     | 4CC-151 |
|  |  |  | 155 | CA_66A-66A-71A | 3CC-44  | 155 | CA_41A-41D         | 4CC-151 |

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|--|--|--|-----|----------------|---------|-----|--------------------|---------|
|  |  |  | 156 | CA_66A-66B     | 3CC-22  | 156 | CA_41C-41C         | 4CC-151 |
|  |  |  | 157 | CA_66A-66C     | 3CC-22  | 157 | CA_41E             | 4CC-151 |
|  |  |  | 158 | CA_66C-71A     | 3CC-44  | 158 | CA_46A-48A-48A-66A | 4CC-188 |
|  |  |  | 159 | CA_66D         | 3CC-22  | 159 | CA_46A-66A-66A-66A | 4CC-158 |
|  |  |  | 160 | CA_46A-48A-66A | 4CC-158 | 160 | CA_46C-66A-66A     | 4CC-158 |
|  |  |  | 161 | CA_2A-46A-48A  | 4CC-188 | 161 | CA_46D-66A         | 4CC-158 |
|  |  |  | 162 | CA_2A-14A-66A  | 4CC-12  | 162 | CA_46D-48A         | 4CC-158 |
|  |  |  | 163 | CA_2A-2A-14A   | 3CC-8   | 163 | CA_46D-71A         |         |
|  |  |  | 164 | CA_48C-48A     | 3CC-6   | 164 | CA_48A-48A-66A-66A | 4CC-158 |
|  |  |  | 165 | CA_48A-48A-71A |         | 165 | CA_48A-48A-66B     | 4CC-158 |
|  |  |  | 166 | CA_48C-71A     | 3CC-165 | 166 | CA_48A-48A-66C     | 4CC-158 |
|  |  |  | 167 | CA_2A-7A-26A   | 4CC-189 | 167 | CA_48A-48D         | 4CC-158 |
|  |  |  | 168 | CA_2A-26A-66A  | 4CC-189 | 168 | CA_48A-48C-66A     | 4CC-158 |
|  |  |  | 169 | CA_7A-26A-66A  | 4CC-189 | 169 | CA_48A-66A-66A-66A | 4CC-158 |
|  |  |  | 170 | CA_7A-13A-66A  | 4CC-235 | 170 | CA_48C-48C         | 4CC-158 |
|  |  |  | 171 | CA_29A-46A-66A |         | 171 | CA_48C-66A-66A     | 4CC-158 |
|  |  |  | 172 | CA_25A-46C     | 3CC-134 | 172 | CA_48C-66B         | 4CC-158 |
|  |  |  | 173 | CA_2A-5A-5A    | 3CC-34  | 173 | CA_48C-66C         | 4CC-158 |
|  |  |  | 174 | CA_46A-48A-48A | 3CC-134 | 174 | CA_48D-66A         | 4CC-158 |
|  |  |  | 175 | CA_46C-48A     | 3CC-134 | 175 | CA_48E             | 4CC-158 |
|  |  |  | 176 | CA_46C-71A     | 4CC-163 | 176 | CA_66A-46D         | 4CC-158 |
|  |  |  | 177 | CA_4A-5A-5A    | 3CC-34  | 177 | CA_66B-66C         | 4CC-158 |
|  |  |  | 178 | CA_4A-7A-29A   | 4CC-203 | 178 | CA_2A-2A-2A-12A    | 4CC-1   |
|  |  |  | 179 | CA_4A-13A-46A  | 4CC-93  | 179 | CA_2A-2A-2A-5A     | 4CC-53  |
|  |  |  | 180 | CA_4A-4A-48A   | 4CC-99  | 180 | CA_2A-2A-2A-30A    | 4CC-1   |
|  |  |  | 181 | CA_4A-48A-48A  | 3CC-180 | 181 | CA_2A-2A-2A-66A    | 4CC-1   |
|  |  |  | 182 | CA_25C-41A     | 3CC-131 | 182 | CA_46C-48A-66A     | 4CC-184 |
|  |  |  | 183 | CA_41A-41A-41A | 3CC-131 | 183 | CA_2A-46C-48A      | 4CC-185 |
|  |  |  | 184 | CA_41C-41A     | 3CC-131 | 184 | CA_46A-48C-66A     | 4CC-188 |
|  |  |  | 185 | CA_46A-48C     | 3CC-134 | 185 | CA_2A-46A-48C      | 4CC-188 |
|  |  |  | 186 | CA_48A-48A-48A | 3CC-186 | 186 | CA_46A-48D         | 4CC-184 |
|  |  |  | 187 | CA_66B-66A     | 3CC-2   | 187 | CA_2A-2A-14A-66A   | 4CC-12  |
|  |  |  | 188 | CA_4A-7A-71A   |         | 188 | CA_2A-46A-48A-66A  | 5CC-115 |
|  |  |  | 189 | CA_7A-32A-38A  |         | 189 | CA_2A-7A-26A-66A   |         |
|  |  |  | 190 | CA_7C-32A      | 3CC-189 | 190 | CA_2A-7A-13A-66A   | 5CC-118 |
|  |  |  | 191 | CA_12A-48C     |         | 191 | CA_7C-13A-66A      | 4CC-190 |
|  |  |  | 192 | CA_41A-46C     |         | 192 | CA_2A-13A-46A-66A  | 5CC-119 |
|  |  |  | 193 | CA_2A-2A-2A    | 3CC-1   | 193 | CA_2A-5A-46A-66A   | 5CC-149 |
|  |  |  | 194 | CA_2A-7A-71A   | 4CC-226 | 194 | CA_5A-7A-46C       | 5CC-72  |
|  |  |  | 195 | CA_7A-66A-71A  | 4CC-230 | 195 | CA_25A-46D         |         |
|  |  |  | 196 | CA_7A-7A-12A   | 3CC-47  | 196 | CA_14A-66A-66A-66A | 4CC-12  |
|  |  |  | 197 | CA_13A-48B     | 3CC-122 | 197 | CA_2A-2A-14A-30A   | 4CC-12  |
|  |  |  | 198 | CA_48B-66A     | 3CC-25  | 198 | CA_2A-2A-29A-66A   | 4CC-14  |
|  |  |  | 199 | CA_7A-38C      | 3CC-189 | 199 | CA_2A-29A-66A-66A  | 4CC-14  |
|  |  |  | 200 | CA_25A-25A-66A | 3CC-203 | 200 | CA_46C-48A-48A     | 4CC-188 |
|  |  |  | 201 | CA_7A-7A-25A   | 3CC-203 | 201 | CA_46C-48C         | 4CC-188 |
|  |  |  | 202 | CA_7A-25A-25A  | 3CC-203 | 202 | CA_2A-48C-48A      | 4CC-188 |
|  |  |  | 203 | CA_7A-25A-66A  | 4CC-237 | 203 | CA_2A-4A-7A-29A    | 5CC-44  |
|  |  |  | 204 | CA_7C-25A      | 3CC-203 | 204 | CA_4A-7A-7A-29A    | 4CC-203 |
|  |  |  | 12  |                |         | 205 | CA_2A-5A-7A-66A    | 5CC-158 |
|  |  |  |     |                |         | 206 | CA_2C-5A-30A       | 4CC-59  |
|  |  |  |     |                |         | 207 | CA_2C-5B           | 4CC-205 |
|  |  |  |     |                |         | 208 | CA_5A-48C-48A      | 4CC-223 |
|  |  |  |     |                |         | 209 | CA_13A-48C-48A     | 4CC-7   |
|  |  |  |     |                |         | 210 | CA_25C-41C         | 4CC-151 |
|  |  |  |     |                |         | 211 | CA_48A-48A-48C     | 4CC-188 |

|  |  |  |  |  |  |     |                    |         |
|--|--|--|--|--|--|-----|--------------------|---------|
|  |  |  |  |  |  | 212 | CA_48C-48A-48A     | 4CC-188 |
|  |  |  |  |  |  | 213 | CA_48A-48C-48A     | 4CC-188 |
|  |  |  |  |  |  | 214 | CA_48C-48A-66A     | 4CC-188 |
|  |  |  |  |  |  | 215 | CA_2A-46A-66C      | 4CC-188 |
|  |  |  |  |  |  | 216 | CA_12A-66A-66A-66A | 4CC-1   |
|  |  |  |  |  |  | 217 | CA_30A-66A-66A-66A | 4CC-1   |
|  |  |  |  |  |  | 218 | CA_2A-2A-2A-14A    | 4CC-12  |
|  |  |  |  |  |  | 219 | CA_2A-2A-2A-29A    | 4CC-14  |
|  |  |  |  |  |  | 220 | CA_29A-66A-66A-66A | 4CC-14  |
|  |  |  |  |  |  | 221 | CA_46C-66C         | 4CC-188 |
|  |  |  |  |  |  | 222 | CA_5A-46A-66A-66A  | 4CC-106 |
|  |  |  |  |  |  | 223 | CA_5A-48A-66A-66A  | 4CC-108 |
|  |  |  |  |  |  | 224 | CA_2A-48A-66A-66A  | 4CC-188 |
|  |  |  |  |  |  | 225 | CA_2A-2A-7A-71A    | 4CC-226 |
|  |  |  |  |  |  | 226 | CA_2A-7A-66A-71A   | 5CC-155 |
|  |  |  |  |  |  | 227 | CA_2A-5A-7A-7A     | 4CC-205 |
|  |  |  |  |  |  | 228 | CA_2A-5A-7C        | 4CC-227 |
|  |  |  |  |  |  | 229 | CA_2A-7A-7A-12A    | 4CC-76  |
|  |  |  |  |  |  | 230 | CA_7A-66A-66A-71A  | 4CC-226 |
|  |  |  |  |  |  | 231 | CA_13A-48A-48A-48A | 4CC-7   |
|  |  |  |  |  |  | 232 | CA_2A-48A-48A-48A  | 4CC-188 |
|  |  |  |  |  |  | 233 | CA_48A-48A-48A-66A | 4CC-188 |
|  |  |  |  |  |  | 234 | CA_5A-7A-7A-66A    | 4CC-119 |
|  |  |  |  |  |  | 235 | CA_7A-7A-13A-66A   | 4CC-190 |
|  |  |  |  |  |  | 236 | CA_7A-7A-25A-25A   | 4CC-237 |
|  |  |  |  |  |  | 237 | CA_7A-7A-25A-66A   | 5CC-162 |
|  |  |  |  |  |  | 238 | CA_7A-25A-25A-66A  | 4CC-237 |
|  |  |  |  |  |  | 239 | CA_2A-2A-7A-13A    | 4CC-82  |
|  |  |  |  |  |  | 240 | CA_2A-2A-7A-7A     | 4CC-56  |
|  |  |  |  |  |  | 241 | CA_2A-2A-7C        | 4CC-56  |
|  |  |  |  |  |  | 242 | CA_7A-46C-66A      | 4CC-84  |
|  |  |  |  |  |  | 243 | CA_7C-25A-25A      | 4CC-244 |
|  |  |  |  |  |  | 244 | CA_7C-25A-66A      | 4CC-237 |
|  |  |  |  |  |  | 245 | CA_2A-2A-5A-7A     | 4CC-227 |
|  |  |  |  |  |  | 246 | CA_2A-46A-48A-48A  | 5CC-33  |

| 5CC Downlink Carrier Aggregation |                       |                                 | 6CC Downlink Carrier Aggregation |                          |                                 | 7CC Downlink Carrier Aggregation |                      |                                 |
|----------------------------------|-----------------------|---------------------------------|----------------------------------|--------------------------|---------------------------------|----------------------------------|----------------------|---------------------------------|
| Number                           | Combination           | Covered by Measurement Superset | Number                           | Combination              | Covered by Measurement Superset | Number                           | Combination          | Covered by Measurement Superset |
| 1                                | CA_2A-12A-30A-66A-66A | 6CC-16                          | 1                                | CA_2A-46A-48E            | 6CC-2                           | 1                                | CA_2A-46C-48D-66A    | 7CC-9                           |
| 2                                | CA_2A-12B-66A-66A     | 5CC-1                           | 2                                | CA_2A-46A-48D-66A        | 7CC-9                           | 2                                | CA_2A-46D-48C-66A    | 7CC-9                           |
| 3                                | CA_2A-13A-46D         | 5CC-119                         | 3                                | CA_2A-46C-48C-66A        | 6CC-2                           | 3                                | CA_2A-46C-48E        | 7CC-9                           |
| 4                                | CA_2A-13A-48A-48A-66A |                                 | 4                                | CA_2A-46D-66A-66A        | 6CC-2                           | 4                                | CA_2A-46E-66A-66A    | 7CC-9                           |
| 5                                | CA_2A-13A-48A-48C     | 5CC-4                           | 5                                | CA_2A-46E-66A            | 6CC-2                           | 5                                | CA_2A-7A-7A-46E      |                                 |
| 6                                | CA_2A-13A-48C-66A     | 5CC-4                           | 6                                | CA_2A-48E-66A            | 6CC-2                           | 6                                | CA_46C-48E-66A       | 7CC-9                           |
| 7                                | CA_2A-13A-48D         | 5CC-4                           | 7                                | CA_2A-7A-7A-46D          | 7CC-5                           | 7                                | CA_46E-48C-66A       | 7CC-9                           |
| 8                                | CA_2A-13A-66A-66B     | 5CC-4                           | 8                                | CA_2A-7A-46E             | 6CC-7                           | 8                                | CA_2A-46E-66C        | 7CC-9                           |
| 9                                | CA_2A-13A-66A-66C     | 5CC-4                           | 9                                | CA_7A-7A-46E             | 6CC-7                           | 9                                | CA_2A-46E-48A-66A    |                                 |
| 10                               | CA_2A-13A-66D         | 5CC-4                           | 10                               | CA_7C-46E                | 6CC-7                           | 10                               | CA_2A-46E-48C        | 7CC-9                           |
| 11                               | CA_2A-14A-66A-66A-66A | 5CC-12                          | 11                               | CA_46C-48D-66A           | 6CC-2                           | 11                               | CA_2A-13A-46E-66A    |                                 |
| 12                               | CA_2A-14A-30A-66A-66A | 6CC-18                          | 12                               | CA_46C-48E               | 6CC-11                          | 12                               | CA_2A-5A-46D-66A-66A | 7CC-13                          |
| 13                               | CA_2A-2A-12A-30A-66A  | 5CC-1                           | 13                               | CA_46E-66A-66A           | 6CC-11                          | 13                               | CA_2A-5A-46E-66A     |                                 |
| 14                               | CA_2A-2A-12A-66A-66A  | 5CC-1                           | 14                               | CA_48C-48C-48C           | 6CC-11                          |                                  |                      |                                 |
| 15                               | CA_2A-2A-12B-66A      | 5CC-1                           | 15                               | CA_2A-46D-66C            | 6CC-2                           |                                  |                      |                                 |
| 16                               | CA_2A-2A-13A-66A-66A  | 5CC-4                           | 16                               | CA_2A-2A-12A-30A-66A-66A |                                 |                                  |                      |                                 |



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|    |                      |         |    |                           |        |  |  |
|----|----------------------|---------|----|---------------------------|--------|--|--|
| 17 | CA_2A-2A-14A-30A-66A | 5CC-12  | 17 | CA_2A-2A-5A-30A-66A-66A   |        |  |  |
| 18 | CA_2A-2A-14A-66A-66A | 5CC-12  | 18 | CA_2A-2A-14A-30A-66A-66A  |        |  |  |
| 19 | CA_2A-2A-29A-30A-66A | 6CC-26  | 19 | CA_2A-12A-30A-66A-66A-66A | 6CC-16 |  |  |
| 20 | CA_2A-2A-29A-66A-66A | 5CC-19  | 20 | CA_2A-5A-30A-66A-66A-66A  | 6CC-17 |  |  |
| 21 | CA_2A-2A-46D         | 5CC-3   | 21 | CA_2A-14A-30A-66A-66A-66A | 6CC-18 |  |  |
| 22 | CA_2A-2A-4A-4A-13A   |         | 22 | CA_2A-5B-30A-66A-66A      | 6CC-17 |  |  |
| 23 | CA_2A-2A-4A-4A-5A    |         | 23 | CA_2A-2A-2A-12A-30A-66A   | 6CC-16 |  |  |
| 24 | CA_2A-2A-4A-5B       | 5CC-23  | 24 | CA_2A-2A-2A-5A-30A-66A    | 6CC-17 |  |  |
| 25 | CA_2A-2A-5A-30A-66A  | 6CC-17  | 25 | CA_2A-2A-2A-14A-30A-66A   | 6CC-18 |  |  |
| 26 | CA_2A-2A-5A-66A-66A  | 5CC-25  | 26 | CA_2A-2A-2A-29A-30A-66A   |        |  |  |
| 27 | CA_2A-2A-5A-66B      | 5CC-25  | 27 | CA_2A-29A-30A-66A-66A-66A | 6CC-26 |  |  |
| 28 | CA_2A-2A-5A-66C      | 5CC-25  | 28 | CA_2A-2A-5B-30A-66A       | 6CC-17 |  |  |
| 29 | CA_2A-2A-5B-66A      | 5CC-25  | 29 | CA_2A-2A-46E              | 6CC-2  |  |  |
| 30 | CA_2A-2A-66A-66B     | 5CC-25  | 30 | CA_2A-46D-48A-66A         | 6CC-2  |  |  |
| 31 | CA_2A-2A-66A-66C     | 5CC-25  | 31 | CA_46E-66C                | 6CC-2  |  |  |
| 32 | CA_2A-2A-7A-12A-66A  |         | 32 | CA_2A-13A-46D-66A         | 7CC-11 |  |  |
| 33 | CA_2A-46C-48A-48A    | 5CC-115 | 33 | CA_2A-5A-46D-66A          | 7CC-13 |  |  |
| 34 | CA_2A-46C-66A-66A    | 5CC-115 | 34 | CA_2A-13A-46E             | 6CC-32 |  |  |
| 35 | CA_2A-46D-48A        | 5CC-33  | 35 | CA_2A-5A-46E              | 6CC-33 |  |  |
| 36 | CA_2A-46D-66A        | 5CC-34  | 36 | CA_5A-46E-66A             | 6CC-33 |  |  |
| 37 | CA_2A-46E            | 5CC-33  | 37 | CA_13A-46E-66A            | 6CC-32 |  |  |
| 38 | CA_2A-48A-48C-66A    | 5CC-41  | 38 | CA_2A-46C-48D             | 6CC-2  |  |  |
| 39 | CA_2A-48A-48D        | 5CC-41  | 39 | CA_2A-46D-48C             | 6CC-2  |  |  |
| 40 | CA_2A-48C-48C        | 5CC-41  | 40 | CA_46D-48C-66A            | 6CC-2  |  |  |
| 41 | CA_2A-48D-66A        | 5CC-115 | 41 | CA_46A-48E-66A            | 6CC-2  |  |  |
| 42 | CA_2A-48E            | 5CC-41  | 42 | CA_46E-48A-66A            | 6CC-2  |  |  |
| 43 | CA_2A-4A-4A-5B       | 5CC-23  | 43 | CA_46E-48C                | 6CC-2  |  |  |
| 44 | CA_2A-4A-7A-7A-29A   |         | 44 | CA_2A-46D-48A-48A         | 6CC-2  |  |  |
| 45 | CA_2A-5A-30A-66A-66A | 5CC-25  | 45 | CA_46D-48A-48A-66A        | 6CC-2  |  |  |
| 46 | CA_2A-5A-46D         | 5CC-149 | 46 | CA_2A-46E-48A             | 6CC-2  |  |  |
| 47 | CA_2A-5A-48A-48C     | 5CC-48  | 47 | CA_5A-46D-66A-66A         | 6CC-33 |  |  |
| 48 | CA_2A-5A-48A-48A-66A | 6CC-49  | 48 | CA_2A-5A-46C-66A-66A      | 6CC-33 |  |  |
| 49 | CA_2A-5A-48C-66A     | 5CC-48  | 49 | CA_2A-5A-48C-66A-66A      |        |  |  |
| 50 | CA_2A-5A-48D         | 5CC-48  | 50 | CA_46D-48D                | 6CC-2  |  |  |
| 51 | CA_2A-5B-30A-66A     | 5CC-45  | 51 | CA_7A-46E-66A             |        |  |  |
| 52 | CA_2A-5B-66A-66A     | 5CC-45  |    |                           |        |  |  |
| 53 | CA_2A-5B-66B         | 5CC-45  |    |                           |        |  |  |
| 54 | CA_2A-5B-66C         | 5CC-45  |    |                           |        |  |  |
| 55 | CA_2A-7A-12B-66A     | 5CC-32  |    |                           |        |  |  |
| 56 | CA_2A-7A-7A-29A-66A  |         |    |                           |        |  |  |
| 57 | CA_2A-7A-7A-66A-66A  | 5CC-56  |    |                           |        |  |  |
| 58 | CA_2A-7A-7A-46C      | 7CC-5   |    |                           |        |  |  |
| 59 | CA_2A-7A-46D         | 5CC-58  |    |                           |        |  |  |
| 60 | CA_2A-7C-66A-66A     | 5CC-56  |    |                           |        |  |  |
| 61 | CA_2A-7C-29A-66A     | 5CC-56  |    |                           |        |  |  |
| 62 | CA_2C-5B-30A         | 5CC-45  |    |                           |        |  |  |
| 63 | CA_4A-46E            |         |    |                           |        |  |  |
| 64 | CA_4A-48E            |         |    |                           |        |  |  |
| 65 | CA_5A-46D-66A        | 5CC-149 |    |                           |        |  |  |
| 66 | CA_5A-46E            | 5CC-65  |    |                           |        |  |  |
| 67 | CA_5A-48A-48C-66A    | 5CC-48  |    |                           |        |  |  |
| 68 | CA_5A-48A-48D        | 5CC-67  |    |                           |        |  |  |
| 69 | CA_5A-48C-48C        | 5CC-67  |    |                           |        |  |  |
| 70 | CA_5A-48D-66A        | 5CC-67  |    |                           |        |  |  |
| 71 | CA_5A-48E            | 5CC-67  |    |                           |        |  |  |
| 72 | CA_5A-7A-46D         |         |    |                           |        |  |  |



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| 73  | CA_5A-7C-66A-66A      | 5CC-158 |  |  |  |  |  |
| 74  | CA_5B-30A-66A-66A     | 5CC-25  |  |  |  |  |  |
| 75  | CA_5B-46D             | 5CC-65  |  |  |  |  |  |
| 76  | CA_5B-66A-66B         | 5CC-65  |  |  |  |  |  |
| 77  | CA_7A-46E             | 5CC-78  |  |  |  |  |  |
| 78  | CA_7A-7A-46D          | 5CC-72  |  |  |  |  |  |
| 79  | CA_7C-46D             | 5CC-78  |  |  |  |  |  |
| 80  | CA_12A-46E            |         |  |  |  |  |  |
| 81  | CA_13A-46D-66A        | 5CC-119 |  |  |  |  |  |
| 82  | CA_13A-46E            | 5CC-81  |  |  |  |  |  |
| 83  | CA_13A-48A-48D        | 5CC-84  |  |  |  |  |  |
| 84  | CA_13A-48A-48C-66A    | 5CC-4   |  |  |  |  |  |
| 85  | CA_13A-48C-48C        | 5CC-84  |  |  |  |  |  |
| 86  | CA_13A-48C-66B        | 5CC-84  |  |  |  |  |  |
| 87  | CA_13A-48C-66C        | 5CC-84  |  |  |  |  |  |
| 88  | CA_13A-48D-66A        | 5CC-84  |  |  |  |  |  |
| 89  | CA_13A-48E            | 5CC-84  |  |  |  |  |  |
| 90  | CA_25A-25A-41D        |         |  |  |  |  |  |
| 91  | CA_25C-41D            | 5CC-90  |  |  |  |  |  |
| 92  | CA_41C-41D            | 5CC-90  |  |  |  |  |  |
| 93  | CA_41F                | 5CC-90  |  |  |  |  |  |
| 94  | CA_46C-48A-48A-66A    | 5CC-115 |  |  |  |  |  |
| 95  | CA_46C-66A-66A-66A    | 5CC-94  |  |  |  |  |  |
| 96  | CA_46D-66A-66A        | 5CC-94  |  |  |  |  |  |
| 97  | CA_46D-48C            | 5CC-94  |  |  |  |  |  |
| 98  | CA_46E-66A            | 5CC-94  |  |  |  |  |  |
| 99  | CA_48A-48A-48D        | 5CC-94  |  |  |  |  |  |
| 100 | CA_48A-48E            | 5CC-94  |  |  |  |  |  |
| 101 | CA_48A-48C-66B        | 5CC-94  |  |  |  |  |  |
| 102 | CA_48A-48C-66C        | 5CC-94  |  |  |  |  |  |
| 103 | CA_48A-48D-66A        | 5CC-94  |  |  |  |  |  |
| 104 | CA_48C-48D            | 5CC-94  |  |  |  |  |  |
| 105 | CA_48C-48C-66A        | 5CC-94  |  |  |  |  |  |
| 106 | CA_48C-66A-66A-66A    | 5CC-94  |  |  |  |  |  |
| 107 | CA_48E-66A            | 5CC-94  |  |  |  |  |  |
| 108 | CA_46C-48C-66A        | 5CC-94  |  |  |  |  |  |
| 109 | CA_2A-46C-48C         | 5CC-115 |  |  |  |  |  |
| 110 | CA_46A-48D-66A        | 5CC-94  |  |  |  |  |  |
| 111 | CA_2A-46A-48D         | 5CC-115 |  |  |  |  |  |
| 112 | CA_46C-48D            | 5CC-94  |  |  |  |  |  |
| 113 | CA_46D-48A-66A        | 5CC-94  |  |  |  |  |  |
| 114 | CA_48A-48C-48C        | 5CC-94  |  |  |  |  |  |
| 115 | CA_2A-46A-48C-66A     | 7CC-9   |  |  |  |  |  |
| 116 | CA_2A-46C-48A-66A     | 5CC-115 |  |  |  |  |  |
| 117 | CA_48F                | 5CC-94  |  |  |  |  |  |
| 118 | CA_2A-7C-13A-66A      | 5CC-161 |  |  |  |  |  |
| 119 | CA_2A-13A-46C-66A     | 7CC-11  |  |  |  |  |  |
| 120 | CA_2A-5A-46C-66A      | 5CC-149 |  |  |  |  |  |
| 121 | CA_46A-48E            | 5CC-94  |  |  |  |  |  |
| 122 | CA_48C-48C-48A        | 5CC-94  |  |  |  |  |  |
| 123 | CA_48C-48A-48C        | 5CC-94  |  |  |  |  |  |
| 124 | CA_2A-46C-66C         | 5CC-115 |  |  |  |  |  |
| 125 | CA_46D-66C            | 5CC-94  |  |  |  |  |  |
| 126 | CA_2A-2A-30A-66A-66A  | 5CC-1   |  |  |  |  |  |
| 127 | CA_2A-12A-66A-66A-66A | 5CC-1   |  |  |  |  |  |
| 128 | CA_2A-30A-66A-66A-66A | 5CC-1   |  |  |  |  |  |

|     |                        |         |  |  |  |  |  |  |
|-----|------------------------|---------|--|--|--|--|--|--|
| 129 | CA_12A-30A-66A-66A-66A | 5CC-1   |  |  |  |  |  |  |
| 130 | CA_2A-5A-66A-66A-66A   | 5CC-25  |  |  |  |  |  |  |
| 131 | CA_5A-30A-66A-66A-66A  | 5CC-25  |  |  |  |  |  |  |
| 132 | CA_14A-30A-66A-66A-66A | 5CC-12  |  |  |  |  |  |  |
| 133 | CA_2A-2A-2A-12A-30A    | 5CC-1   |  |  |  |  |  |  |
| 134 | CA_2A-2A-2A-12A-66A    | 5CC-1   |  |  |  |  |  |  |
| 135 | CA_2A-2A-2A-30A-66A    | 5CC-1   |  |  |  |  |  |  |
| 136 | CA_2A-2A-2A-5A-30A     | 5CC-25  |  |  |  |  |  |  |
| 137 | CA_2A-2A-2A-5A-66A     | 5CC-25  |  |  |  |  |  |  |
| 138 | CA_2A-2A-2A-14A-30A    | 5CC-12  |  |  |  |  |  |  |
| 139 | CA_2A-2A-2A-14A-66A    | 5CC-12  |  |  |  |  |  |  |
| 140 | CA_2A-2A-2A-29A-30A    | 5CC-142 |  |  |  |  |  |  |
| 141 | CA_2A-2A-2A-29A-66A    | 5CC-142 |  |  |  |  |  |  |
| 142 | CA_2A-29A-30A-66A-66A  | 5CC-19  |  |  |  |  |  |  |
| 143 | CA_2A-29A-66A-66A-66A  | 5CC-142 |  |  |  |  |  |  |
| 144 | CA_29A-30A-66A-66A-66A | 5CC-142 |  |  |  |  |  |  |
| 145 | CA_2A-2A-5B-30A        | 5CC-25  |  |  |  |  |  |  |
| 146 | CA_46D-48A-48A         | 5CC-94  |  |  |  |  |  |  |
| 147 | CA_46E-48A             | 5CC-94  |  |  |  |  |  |  |
| 148 | CA_2A-5A-5A-66A-66A    | 5CC-25  |  |  |  |  |  |  |
| 149 | CA_2A-5A-46A-66A-66A   | 7CC-13  |  |  |  |  |  |  |
| 150 | CA_5A-46C-66A-66A      | 5CC-149 |  |  |  |  |  |  |
| 151 | CA_2A-48C-66A-66A      | 5CC-153 |  |  |  |  |  |  |
| 152 | CA_5A-48C-66A-66A      | 5CC-153 |  |  |  |  |  |  |
| 153 | CA_2A-5A-48A-66A-66A   | 5CC-48  |  |  |  |  |  |  |
| 154 | CA_2A-2A-7A-66A-66A    | 5CC-32  |  |  |  |  |  |  |
| 155 | CA_2A-2A-7A-66A-71A    |         |  |  |  |  |  |  |
| 156 | CA_2A-7A-66A-66A-71A   | 5CC-155 |  |  |  |  |  |  |
| 157 | CA_2A-7A-12A-66A-66A   | 5CC-32  |  |  |  |  |  |  |
| 158 | CA_2A-5A-7A-66A-66A    |         |  |  |  |  |  |  |
| 159 | CA_2A-2A-66A-66A-71A   | 5CC-155 |  |  |  |  |  |  |
| 160 | CA_2A-5A-7A-7A-66A     | 5CC-158 |  |  |  |  |  |  |
| 161 | CA_2A-7A-7A-13A-66A    |         |  |  |  |  |  |  |
| 162 | CA_7A-7A-25A-25A-66A   |         |  |  |  |  |  |  |
| 163 | CA_2A-2A-7A-7A-13A     | 5CC-161 |  |  |  |  |  |  |
| 164 | CA_2A-2A-7C-13A        | 5CC-161 |  |  |  |  |  |  |
| 165 | CA_2A-5A-7C-66A        | 5CC-158 |  |  |  |  |  |  |
| 166 | CA_7A-46D-66A          | 6CC-51  |  |  |  |  |  |  |
| 167 | CA_7C-25A-25A-66A      | 5CC-162 |  |  |  |  |  |  |

**<Power verification when LTE Carrier Aggregation Active>**
**General Note:**

- According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- The device supports downlink carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1 | BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)} |}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

**<Two Carrier power verification>**

| Configure  | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC      |          |                |            | Power                  |                       |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_5A-25A              | 5        | 10       | 836.5          | 20525      | QPSK | 1      | 0            | 25       | 20       | 1960           | 8340       | 24.47                  | 24.50                 |
|            | CA_5A-41A              | 5        | 10       | 836.5          | 20525      | QPSK | 1      | 0            | 41       | 20       | 2593           | 40620      | 24.45                  | 24.50                 |
|            | CA_12A-25A             | 12       | 10       | 707.5          | 23095      | QPSK | 1      | 0            | 25       | 20       | 1960           | 8340       | 24.53                  | 24.61                 |
|            | CA_26A-46A             | 26       | 10       | 831.5          | 26865      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 24.40                  | 24.45                 |
|            | CA_38A-46A             | 38       | 20       | 2595           | 38000      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 24.64                  | 24.65                 |
|            | CA_4A-41A              | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 41       | 20       | 2593           | 40620      | 24.39                  | 24.40                 |

**<Three Carrier power verification>**

| Configure  | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | Power                  |                       |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-4A-17A           | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 4        | 10       | 2132.5         | 2175       | 17       | 10       | 740            | 5790       | 24.59                  | 24.61                 |
|            | CA_2A-4A-46A           | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 46       | 20       | 5537.5         | 50665      | 24.52                  | 24.61                 |
|            | CA_5B-38A              | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 5        | 10       | 883.9          | 2549       | 38       | 20       | 2595           | 38000      | 24.38                  | 24.44                 |
|            | CA_25A-25A-26A         | 25       | 20       | 1880           | 26340      | QPSK | 1      | 0            | 25       | 5        | 1932.5         | 8065       | 26       | 5        | 876.5          | 8865       | 24.37                  | 24.42                 |
|            | CA_25A-46A-48A         | 25       | 20       | 1880           | 26340      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 48       | 20       | 3641           | 56150      | 24.41                  | 24.42                 |
|            | CA_26A-41C             | 26       | 15       | 831.5          | 26865      | QPSK | 1      | 0            | 41       | 20       | 2593           | 40620      | 41       | 20       | 2573.2         | 40422      | 24.44                  | 24.46                 |
|            | CA_48A-48A-71A         | 48       | 20       | 3690           | 56640      | QPSK | 1      | 0            | 48       | 5        | 3552.5         | 55265      | 71       | 20       | 634.5          | 68761      | 25.03                  | 25.13                 |
|            | CA_29A-46A-66A         | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 29       | 10       | 722.5          | 9715       | 46       | 20       | 5537.5         | 50665      | 24.62                  | 24.63                 |
|            | CA_4A-7A-71A           | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 71       | 20       | 634.5          | 68761      | 24.39                  | 24.40                 |
|            | CA_7A-32A-38A          | 7        | 20       | 2535           | 21100      | QPSK | 1      | 0            | 32       | 20       | 1474           | 10140      | 38       | 20       | 2595           | 38000      | 24.68                  | 24.73                 |
|            | CA_12A-48C             | 12       | 10       | 707.5          | 23095      | QPSK | 1      | 0            | 48       | 20       | 3552.5         | 55265      | 48       | 20       | 3532.7         | 55067      | 24.54                  | 24.61                 |
|            | CA_41A-46C             | 41       | 20       | 2549.5         | 40185      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 24.73                  | 24.80                 |

**<Four Carrier power verification>**

| Configure  | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | Power                  |                       |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-2A-4A-71A        | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1932.5         | 625        | 4        | 20       | 2132.5         | 2175       | 71       | 20       | 634.5          | 68761      | 24.53                  | 24.61                 |
|            | CA_2A-4A-12A-30A       | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 12       | 10       | 737.5          | 5095       | 30       | 10       | 2355           | 9820       | 24.58                  | 24.61                 |
|            | CA_2A-4A-29A-30A       | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 29       | 10       | 722.5          | 9715       | 30       | 10       | 2355           | 9820       | 24.51                  | 24.61                 |
|            | CA_2A-4A-5A-30A        | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 5        | 10       | 881.5          | 2525       | 30       | 10       | 2355           | 9820       | 24.57                  | 24.61                 |
|            | CA_2A-4A-7A-12A        | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 7        | 20       | 2655           | 3100       | 12       | 10       | 737.5          | 5095       | 24.54                  | 24.61                 |
|            | CA_2A-7A-46A-66A       | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 46       | 20       | 5537.5         | 50665      | 66       | 20       | 2155           | 66886      | 24.53                  | 24.61                 |
|            | CA_4A-13A-46C          | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 13       | 10       | 751            | 5230       | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 24.30                  | 24.40                 |
|            | CA_46D-71A             | 71       | 20       | 680.5          | 133297     | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 24.74                  | 24.79                 |
|            | CA_2A-7A-26A-66A       | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 26       | 15       | 876.5          | 8865       | 66       | 20       | 2155           | 66886      | 24.58                  | 24.61                 |
|            | CA_25A-46D             | 25       | 20       | 1880           | 26340      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 24.35                  | 24.42                 |

**<Five Carrier power verification>**

| Configure  | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | SCC4     |          |                |            | Power                  |                       |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-13A-48A-48A-66A  | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 13       | 10       | 751            | 5230       | 48       | 20       | 3641           | 56150      | 48       | 5        | 3552.5         | 55265      | 66       | 20       | 2155           | 66886      | 24.55                  | 24.61                 |
|            | CA_2A-2A-4A-4A-13A     | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1932.5         | 625        | 4        | 20       | 2132.5         | 2175       | 4        | 5        | 2112.5         | 1975       | 13       | 10       | 751            | 5230       | 24.58                  | 24.61                 |
|            | CA_2A-2A-4A-4A-5A      | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1932.5         | 625        | 4        | 20       | 2132.5         | 2175       | 4        | 5        | 2112.5         | 1975       | 5        | 10       | 881.5          | 2525       | 24.59                  | 24.61                 |
|            | CA_2A-2A-7A-12A-66A    | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1960           | 900        | 7        | 20       | 2655           | 3100       | 12       | 10       | 737.5          | 5095       | 66       | 20       | 2155           | 66886      | 24.56                  | 24.61                 |
|            | CA_2A-4A-7A-7A-29A     | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 4        | 20       | 2132.5         | 2175       | 7        | 20       | 2655           | 3100       | 7        | 5        | 2622.5         | 2775       | 29       | 10       | 722.5          | 9715       | 24.60                  | 24.61                 |
|            | CA_2A-7A-7A-29A-66A    | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 7        | 5        | 2622.5         | 2775       | 29       | 10       | 722.5          | 9715       | 66       | 20       | 2155           | 66886      | 24.54                  | 24.61                 |
|            | CA_4A-46E              | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 24.33                  | 24.40                 |
|            | CA_4A-48E              | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 48       | 20       | 3641           | 56150      | 48       | 20       | 3621.2         | 55952      | 48       | 20       | 3601.4         | 55754      | 48       | 20       | 3581.6         | 55556      | 24.39                  | 24.40                 |
|            | CA_5A-7A-46D           | 5        | 10       | 836.5          | 20525      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 24.40                  | 24.50                 |
|            | CA_12A-46E             | 12       | 10       | 707.5          | 23095      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 24.56                  | 24.61                 |
|            | CA_25A-25A-41D         | 25       | 20       | 1880           | 26340      | QPSK | 1      | 0            | 25       | 5        | 1932.5         | 8065       | 41       | 20       | 2593           | 40620      | 41       | 20       | 2612.8         | 40818      | 41       | 20       | 2632.6         | 41016      | 24.34                  | 24.42                 |
|            | CA_2A-2A-7A-66A-71A    | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1932.5         | 625        | 7        | 20       | 2655           | 3100       | 66       | 20       | 2155           | 66886      | 71       | 20       | 634.5          | 68761      | 24.60                  | 24.61                 |
|            | CA_2A-5A-7A-66A-66A    | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 5        | 10       | 881.5          | 2525       | 7        | 20       | 2655           | 3100       | 66       | 20       | 2155           | 66886      | 66       | 5        | 2112.5         | 66486      | 24.52                  | 24.61                 |
|            | CA_2A-7A-7A-13A-66A    | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 7        | 5        | 2622.5         | 2775       | 13       | 10       | 751            | 5230       | 66       | 20       | 2155           | 66886      | 24.59                  | 24.61                 |
|            | CA_7A-7A-25A-25A-66A   | 7        | 20       | 2535           | 21100      | QPSK | 1      | 0            | 7        | 5        | 2622.5         | 2775       | 25       | 20       | 1960           | 8340       | 25       | 5        | 1932.5         | 8065       | 66       | 20       | 2155           | 66886      | 24.68                  | 24.73                 |

**<Six Carrier power verification>**

| Configure  | CA Configuration (BCS)   | PCC      |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | SCC4     |          |                |            | SCC5     |          |                |            | Power                  |                       |
|------------|--------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                          | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-2A-12A-30A-66A-66A | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1932.5         | 625        | 12       | 10       | 737.5          | 5095       | 30       | 10       | 2355           | 9820       | 66       | 20       | 2155           | 66886      | 66       | 5        | 2112.5         | 66486      | 24.54                  | 24.61                 |
|            | CA_2A-2A-5A-30A-66A-66A  | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1932.5         | 625        | 5        | 10       | 881.5          | 2525       | 30       | 10       | 2355           | 9820       | 66       | 20       | 2155           | 66886      | 66       | 5        | 2112.5         | 66486      | 24.56                  | 24.61                 |
|            | CA_2A-2A-14A-30A-66A-66A | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1932.5         | 625        | 14       | 10       | 763            | 5330       | 30       | 10       | 2355           | 9820       | 66       | 20       | 2155           | 66886      | 66       | 5        | 2112.5         | 66486      | 24.55                  | 24.61                 |
|            | CA_2A-2A-2A-29A-30A-66A  | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1932.5         | 625        | 2        | 5        | 1932.5         | 625        | 29       | 10       | 722.5          | 9715       | 30       | 10       | 2355           | 9820       | 66       | 20       | 2155           | 66886      | 24.59                  | 24.61                 |
|            | CA_2A-5A-48C-66A-66A     | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 5        | 10       | 881.5          | 2525       | 48       | 20       | 3641           | 56150      | 48       | 20       | 3660.8         | 56348      | 66       | 20       | 2155           | 66886      | 66       | 5        | 2112.5         | 66486      | 24.58                  | 24.61                 |
|            | CA_7A-46E-66A            | 7        | 20       | 2535           | 21100      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 66       | 20       | 2155           | 66886      | 24.66                  | 24.73                 |

**<Seven Carrier power verification>**

| Configure  | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | SCC4     |          |                |            | SCC5     |          |                |            | SCC6     |          |                |            | Power                  |                       |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-7A-7A-46E        | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 7        | 20       | 2655           | 3100       | 7        | 5        | 2622.5         | 2775       | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 24.54                  | 24.61                 |
|            | CA_2A-46E-48A-66A      | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 48       | 20       | 3641           | 56150      | 66       | 20       | 2155           | 66886      | 24.54                  | 24.61                 |
|            | CA_2A-13A-46E-66A      | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 13       | 10       | 751            | 5230       | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 66       | 20       | 2155           | 66886      | 24.53                  | 24.61                 |
|            | CA_2A-5A-46E-66A       | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 5        | 10       | 881.5          | 2525       | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 66       | 20       | 2155           | 66886      | 24.52                  | 24.61                 |

**<LTE Uplink carrier aggregation>**

| 2CC Uplink Carrier Aggregation |             |
|--------------------------------|-------------|
| Number                         | Combination |
| 1                              | CA_5B       |
| 2                              | CA_7C       |
| 3                              | CA_66B      |
| 4                              | CA_66C      |
| 5                              | CA_41C      |

**<Intra-band>**
**General Note:**

- The device supports intra-band uplink carrier aggregation with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several Db of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- Uplink CA is only operating with power class3, and additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.
- For Intra-band, contiguous CA, the channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

| Index 1/2/3/4/5/6                   |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                               |             |            |         |           |         |           |                      |                     |
| CA_5B                               |             |            |         |           |         |           |                      |                     |
| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 22.84                | 23.7                |
| 20525                               | 20624       | QPSK       | 1       | 0         | 1       | 49        | 23.07                | 23.7                |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 23.06                | 23.7                |

| Index 1/2/3                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_7C                                 |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 22.79                | 23.9                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 23.01                | 23.9                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 22.99                | 23.9                |

| Index 4                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_7C                                 |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 20.55                | 22                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 20.57                | 22                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 20.46                | 22                  |

| Index 5                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_7C                                 |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 22.79                | 23.4                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 23.01                | 23.4                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 22.99                | 23.4                |

| Index 6                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_7C                                 |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 20.55                | 22.2                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 20.57                | 22.2                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 20.46                | 22.2                |

| Index 1/2/3                        |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                              |             |            |         |           |         |           |                      |                     |
| CA_66B                             |             |            |         |           |         |           |                      |                     |
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 22.81                | 23.8                |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 22.83                | 23.8                |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 22.82                | 23.8                |

| Index 4                            |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                              |             |            |         |           |         |           |                      |                     |
| CA_66B                             |             |            |         |           |         |           |                      |                     |
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 22.81                | 23.3                |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 22.83                | 23.3                |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 22.82                | 23.3                |

| Index 5                            |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                              |             |            |         |           |         |           |                      |                     |
| CA_66B                             |             |            |         |           |         |           |                      |                     |
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 22.81                | 23.8                |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 22.83                | 23.8                |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 22.82                | 23.8                |

| Index 6                            |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                              |             |            |         |           |         |           |                      |                     |
| CA_66B                             |             |            |         |           |         |           |                      |                     |
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 22.81                | 23.6                |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 22.83                | 23.6                |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 22.82                | 23.6                |

| Index 1/2/3                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_66C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 22.83                | 23.8                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 23.26                | 23.8                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 22.96                | 23.8                |

| Index 4                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_66C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 22.83                | 23.3                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 22.97                | 23.3                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 22.96                | 23.3                |

| Index 5                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_66C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 22.83                | 23.8                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 22.97                | 23.8                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 22.96                | 23.8                |

| Index 6                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_66C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 22.83                | 23.6                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 22.97                | 23.6                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 22.96                | 23.6                |

| Index 1/2/3/4/5/6                     |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 2                                 |             |            |         |           |         |           |                      |                     |
| CA_41C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 23.41                | 23.9                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 23.56                | 23.9                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 23.58                | 23.9                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 23.49                | 23.9                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 23.51                | 23.9                |

| Index 1/4/5/6                       |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 1                               |             |            |         |           |         |           |                      |                     |
| CA_5B                               |             |            |         |           |         |           |                      |                     |
| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 23.88                | 24.0                |
| 20525                               | 20624       | QPSK       | 1       | 0         | 1       | 49        | 23.89                | 24.0                |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 23.81                | 24.0                |

| Index 2                             |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 1                               |             |            |         |           |         |           |                      |                     |
| CA_5B                               |             |            |         |           |         |           |                      |                     |
| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 23.88                | 23.9                |
| 20525                               | 20624       | QPSK       | 1       | 0         | 1       | 49        | 23.89                | 23.9                |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 23.81                | 23.9                |

| Index 3                             |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 1                               |             |            |         |           |         |           |                      |                     |
| CA_5B                               |             |            |         |           |         |           |                      |                     |
| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 20.83                | 22.7                |
| 20525                               | 20624       | QPSK       | 1       | 0         | 1       | 49        | 21.55                | 22.7                |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 20.81                | 22.7                |

| Index 1/2/3                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_7C                                 |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 23.05                | 23.9                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 23.09                | 23.9                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 23.07                | 23.9                |

| Index 4                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_7C                                 |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 16.32                | 18.3                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 16.36                | 18.3                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 16.31                | 18.3                |

| Index 5                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_7C                                 |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 20.97                | 21.8                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 21.12                | 21.8                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 20.91                | 21.8                |

| Index 6                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_7C                                 |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 19.48                | 20.6                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 19.49                | 20.6                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 19.25                | 20.6                |

| Index 1/2/3                        |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                              |             |            |         |           |         |           |                      |                     |
| CA_66B                             |             |            |         |           |         |           |                      |                     |
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 22.85                | 23.8                |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 22.97                | 23.8                |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 22.90                | 23.8                |

| Index 4                            |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                              |             |            |         |           |         |           |                      |                     |
| CA_66B                             |             |            |         |           |         |           |                      |                     |
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 15.31                | 17.3                |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 15.33                | 17.3                |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 15.32                | 17.3                |

| Index 5                            |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                              |             |            |         |           |         |           |                      |                     |
| CA_66B                             |             |            |         |           |         |           |                      |                     |
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 18.82                | 20.8                |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 18.83                | 20.8                |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 18.81                | 20.8                |

| Index 6                            |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                              |             |            |         |           |         |           |                      |                     |
| CA_66B                             |             |            |         |           |         |           |                      |                     |
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 17.61                | 19.6                |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 17.65                | 19.6                |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 17.61                | 19.6                |

| Index 1/2/3                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_66C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 23.24                | 23.8                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 23.26                | 23.8                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 23.22                | 23.8                |

| Index 4                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_66C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 15.96                | 17.3                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 15.98                | 17.3                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 15.77                | 17.3                |

| Index 5                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_66C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 19.12                | 20.8                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 19.21                | 20.8                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 19.12                | 20.8                |

| Index 6                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_66C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 18.48                | 19.6                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 18.57                | 19.6                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 18.53                | 19.6                |

| Index 1/2/3                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_41C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 23.15                | 23.9                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 23.26                | 23.9                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 23.27                | 23.9                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 23.25                | 23.9                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 23.17                | 23.9                |

| Index 4                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_41C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.95                | 20.7                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.96                | 20.7                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 19.10                | 20.7                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 19.05                | 20.7                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.95                | 20.7                |

| Index 5                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_41C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 23.15                | 23.9                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 23.26                | 23.9                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 23.27                | 23.9                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 23.25                | 23.9                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 23.17                | 23.9                |

| Index 6                               |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Ant 0                                 |             |            |         |           |         |           |                      |                     |
| CA_41C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 21.23                | 23                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 21.21                | 23                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 21.28                | 23                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 21.25                | 23                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 21.20                | 23                  |

# **14. RF Exposure position consideration**

| Distance of the Antenna to the EUT surface/edge |        |        |          |             |            |           |
|-------------------------------------------------|--------|--------|----------|-------------|------------|-----------|
| Antennas                                        | Front  | Back   | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Ant 0                                      | ≤ 25mm | ≤ 25mm | > 25mm   | ≤ 25mm      | ≤ 25mm     | ≤ 25mm    |
| WWAN Ant 1                                      | ≤ 25mm | ≤ 25mm | ≤ 25mm   | > 25mm      | ≤ 25mm     | ≤ 25mm    |
| WWAN Ant 2                                      | ≤ 25mm | ≤ 25mm | > 25mm   | ≤ 25mm      | ≤ 25mm     | ≤ 25mm    |
| WWAN Ant 5                                      | ≤ 25mm | ≤ 25mm | ≤ 25mm   | > 25mm      | ≤ 25mm     | ≤ 25mm    |
| WWAN Ant 6                                      | ≤ 25mm | ≤ 25mm | > 25mm   | ≤ 25mm      | ≤ 25mm     | ≤ 25mm    |
| WWAN Ant 7                                      | ≤ 25mm | ≤ 25mm | > 25mm   | ≤ 25mm      | ≤ 25mm     | ≤ 25mm    |
| 2.4GHz WLAN Ant 4                               | ≤ 25mm | ≤ 25mm | ≤ 25mm   | > 25mm      | ≤ 25mm     | ≤ 25mm    |
| 2.4GHz WLAN Ant 3                               | ≤ 25mm | ≤ 25mm | ≤ 25mm   | > 25mm      | ≤ 25mm     | ≤ 25mm    |
| WLAN/BT Ant 4+3                                 | ≤ 25mm | ≤ 25mm | ≤ 25mm   | > 25mm      | ≤ 25mm     | ≤ 25mm    |

| Positions for SAR tests; Hotspot mode |       |      |          |             |            |           |
|---------------------------------------|-------|------|----------|-------------|------------|-----------|
| Antennas                              | Front | Back | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Ant 0                            | Yes   | Yes  | No       | Yes         | Yes        | Yes       |
| WWAN Ant 1                            | Yes   | Yes  | Yes      | No          | Yes        | Yes       |
| WWAN Ant 2                            | Yes   | Yes  | No       | Yes         | Yes        | Yes       |
| WWAN Ant 5                            | Yes   | Yes  | Yes      | No          | Yes        | Yes       |
| WWAN Ant 6                            | Yes   | Yes  | No       | Yes         | Yes        | Yes       |
| WWAN Ant 7                            | Yes   | Yes  | No       | Yes         | Yes        | Yes       |
| 2.4GHz WLAN Ant 4                     | Yes   | Yes  | Yes      | No          | Yes        | Yes       |
| 2.4GHz WLAN Ant 3                     | Yes   | Yes  | Yes      | No          | Yes        | Yes       |
| WLAN/BT Ant 4+3                       | Yes   | Yes  | Yes      | No          | Yes        | Yes       |

**General Note:**

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm\*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge
- The antenna location is illustrated in the Appendix E.

## 15. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8$  W/kg or  $2.0$  W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  W/kg or  $1.5$  W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - $\leq 0.4$  W/kg or  $1.0$  W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is  $\leq 1.2$  W/kg, SAR testing with a headset connected to the handset is not required.
5. Per KDB 648474 D04v01r03, for smart phones with a display diagonal dimension  $> 15.0$  cm or an overall diagonal dimension  $> 16.0$  cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2$  W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold, for this device the GSM1900, WCDMA B2/4, LTE B25/66, FR1 n25/66 Bottom Side product specific SAR is necessary.
6. For 5.3GHz / 5.5GHz / 6GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is  $> 16$ cm.

### GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.

### UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA , and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

**LTE Note:**

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; SAR test for overlapping LTE bands can be reduced if
  - a. The maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion.
  - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

**5G NR Note:**

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
  - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
  - b. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
  - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not  $\frac{1}{2}$  dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
  - d. Smaller bandwidth output power for each RB allocation configuration for this device is not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
  - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
  - f. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
  - g. NR n2/38 SAR test was covered by NR n25/41; SAR test for overlapping bands can be reduced if the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band and the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band to qualify for the SAR test exclusion.

**WLAN Note:**

1. The SISO mode support only when the Antenna 3 and 4 is transmitting on 802.11b mode, other support MIMO mode.
2. Per KDB 248227 D01v02r02, For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test position when 802.11 DSS mode is active at transmit antenna 3 and 4
3. Per KDB 248227 D01v02r02, for 2.4GHz WLAN MIMO operation for 802.11g/n, when the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured, so 802.11g mode is selected to be tested.
4. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for WLAN5.2GHz band.
5. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
6. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
7. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain, Ant 4+3(3) is for enabling 2TX mode for SAR test and reporting the result which associates with the Ant 3
8. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

**WLAN PD Note:**

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Absorbed power density (APD) using a 4cm<sup>2</sup> averaging area is reported based on SAR measurements.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by  $\lambda/4$ .
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty  $> 30\%$ . Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. The measurement procedure consists of measuring the PDinc at two different distances: 2 mm (compliance distance) and  $\lambda/5$ . The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPDn fulfill the criterion described below. Since iPD ratio between the two distances is  $\geq -1$ dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$



## 15.1 Head SAR

### <GSM SAR>

| Plot No. | Band          | Mode              | Test Position | Gap (mm) | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|-------------------|---------------|----------|-------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 2/3         | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | 0.02             | 0.238                  | 0.246                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 2/3         | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | -0.02            | 0.138                  | 0.143                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 2/3         | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | 0                | 0.426                  | 0.441                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 2/3         | 189 | 836.4       | 29.80               | 30.50               | 1.175                  | 0.03             | 0.356                  | 0.418                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 2/3         | 251 | 848.8       | 29.77               | 30.50               | 1.183                  | -0.01            | 0.352                  | 0.416                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 2/3         | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | 0.05             | 0.214                  | 0.222                  |
| 01       | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 2           | 128 | 824.2       | 26.77               | 27.30               | 1.130                  | 0.05             | 0.917                  | 1.036                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 2           | 189 | 836.4       | 26.66               | 27.30               | 1.159                  | 0.01             | 0.878                  | 1.017                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 2           | 251 | 848.8       | 26.56               | 27.30               | 1.186                  | 0.03             | 0.863                  | 1.023                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 2           | 128 | 824.2       | 26.77               | 27.30               | 1.130                  | 0.02             | 0.738                  | 0.834                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 2           | 189 | 836.4       | 26.66               | 27.30               | 1.159                  | 0                | 0.725                  | 0.840                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 2           | 251 | 848.8       | 26.56               | 27.30               | 1.186                  | 0.05             | 0.697                  | 0.826                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 2           | 128 | 824.2       | 26.77               | 27.30               | 1.130                  | -0.06            | 0.644                  | 0.728                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 2           | 128 | 824.2       | 26.77               | 27.30               | 1.130                  | -0.03            | 0.595                  | 0.672                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 3           | 128 | 824.2       | 25.35               | 26.10               | 1.189                  | -0.06            | 0.594                  | 0.706                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 3           | 189 | 836.4       | 25.26               | 26.10               | 1.213                  | 0.02             | 0.538                  | 0.653                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 3           | 251 | 848.8       | 25.33               | 26.10               | 1.194                  | 0.01             | 0.517                  | 0.617                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 3           | 128 | 824.2       | 25.35               | 26.10               | 1.189                  | 0                | 0.508                  | 0.604                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 3           | 128 | 824.2       | 25.35               | 26.10               | 1.189                  | 0.05             | 0.437                  | 0.519                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 3           | 128 | 824.2       | 25.35               | 26.10               | 1.189                  | -0.06            | 0.389                  | 0.462                  |
| 02       | GSM1900_Ant 2 | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 2/3         | 512 | 1850.2      | 27.09               | 28.00               | 1.233                  | -0.03            | 0.484                  | 0.597                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 2/3         | 661 | 1880        | 27.08               | 28.00               | 1.236                  | -0.02            | 0.335                  | 0.414                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 2/3         | 810 | 1909.8      | 26.86               | 28.00               | 1.300                  | -0.1             | 0.309                  | 0.402                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 2/3         | 512 | 1850.2      | 27.09               | 28.00               | 1.233                  | 0.05             | 0.215                  | 0.265                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 2/3         | 512 | 1850.2      | 27.09               | 28.00               | 1.233                  | 0                | 0.172                  | 0.212                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 2/3         | 512 | 1850.2      | 27.09               | 28.00               | 1.233                  | 0.03             | 0.131                  | 0.162                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 2/3         | 512 | 1850.2      | 27.49               | 27.80               | 1.074                  | 0.01             | 0.001                  | 0.001                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 2/3         | 512 | 1850.2      | 27.49               | 27.80               | 1.074                  | 0                | 0.001                  | 0.001                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 2/3         | 512 | 1850.2      | 27.49               | 27.80               | 1.074                  | -0.1             | 0.024                  | 0.026                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 2/3         | 661 | 1880        | 27.15               | 27.80               | 1.161                  | -0.19            | 0.036                  | 0.042                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 2/3         | 810 | 1909.8      | 26.76               | 27.80               | 1.271                  | -0.01            | 0.028                  | 0.036                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 2/3         | 512 | 1850.2      | 27.49               | 27.80               | 1.074                  | 0.04             | 0.001                  | 0.001                  |

**<WCDMA SAR>**

| Plot No. | Band           | Mode         | Test Position | Gap (mm) | Power Index | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------------|--------------|---------------|----------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2           | 9400 | 1880        | 24.59               | 25.40               | 1.205                  | 0.05             | 0.824                  | 0.993                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2           | 9262 | 1852.4      | 24.54               | 25.40               | 1.219                  | 0.03             | 0.726                  | 0.885                  |
| 03       | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2           | 9538 | 1907.6      | 24.52               | 25.40               | 1.225                  | 0.09             | 0.832                  | 1.019                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Tilted  | 0mm      | 2           | 9400 | 1880        | 24.59               | 25.40               | 1.205                  | 0.1              | 0.308                  | 0.371                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Left Cheek    | 0mm      | 2           | 9400 | 1880        | 24.59               | 25.40               | 1.205                  | 0.08             | 0.349                  | 0.421                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Left Tilted   | 0mm      | 2           | 9400 | 1880        | 24.59               | 25.40               | 1.205                  | -0.13            | 0.287                  | 0.346                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 3           | 9400 | 1880        | 24.59               | 24.80               | 1.050                  | 0.05             | 0.824                  | 0.865                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 3           | 9262 | 1852.4      | 24.54               | 24.80               | 1.062                  | 0.03             | 0.726                  | 0.771                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 3           | 9538 | 1907.6      | 24.52               | 24.80               | 1.067                  | 0.09             | 0.832                  | 0.887                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Tilted  | 0mm      | 3           | 9400 | 1880        | 24.59               | 24.80               | 1.050                  | 0.1              | 0.308                  | 0.323                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Left Cheek    | 0mm      | 3           | 9400 | 1880        | 24.59               | 24.80               | 1.050                  | 0.08             | 0.349                  | 0.366                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Left Tilted   | 0mm      | 3           | 9400 | 1880        | 24.59               | 24.80               | 1.050                  | -0.13            | 0.287                  | 0.301                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 9400 | 1880        | 23.95               | 25.20               | 1.334                  | 0.12             | 0.043                  | 0.057                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 9262 | 1852.4      | 23.83               | 25.20               | 1.371                  | 0.05             | 0.057                  | 0.078                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 9538 | 1907.6      | 23.75               | 25.20               | 1.396                  | 0.19             | 0.033                  | 0.046                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Right Tilted  | 0mm      | 2/3         | 9400 | 1880        | 23.95               | 25.20               | 1.334                  | -0.15            | 0.019                  | 0.025                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Left Cheek    | 0mm      | 2/3         | 9400 | 1880        | 23.95               | 25.20               | 1.334                  | -0.16            | 0.040                  | 0.053                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Left Tilted   | 0mm      | 2/3         | 9400 | 1880        | 23.95               | 25.20               | 1.334                  | 0.04             | 0.001                  | 0.001                  |
| 04       | WCDMA IV_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 1513 | 1752.6      | 24.76               | 25.40               | 1.159                  | -0.02            | 0.490                  | 0.568                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 1312 | 1712.4      | 24.60               | 25.40               | 1.202                  | -0.17            | 0.372                  | 0.447                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 1413 | 1732.6      | 24.52               | 25.40               | 1.225                  | -0.08            | 0.411                  | 0.503                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Right Tilted  | 0mm      | 2/3         | 1513 | 1752.6      | 24.76               | 25.40               | 1.159                  | -0.09            | 0.254                  | 0.294                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Left Cheek    | 0mm      | 2/3         | 1513 | 1752.6      | 24.76               | 25.40               | 1.159                  | -0.01            | 0.201                  | 0.233                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Left Tilted   | 0mm      | 2/3         | 1513 | 1752.6      | 24.76               | 25.40               | 1.159                  | 0.04             | 0.248                  | 0.287                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 1513 | 1752.6      | 23.72               | 25.20               | 1.406                  | 0.09             | 0.053                  | 0.075                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 1312 | 1712.4      | 23.68               | 25.20               | 1.419                  | -0.01            | 0.056                  | 0.079                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 1413 | 1732.6      | 23.56               | 25.20               | 1.459                  | -0.08            | 0.047                  | 0.069                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Right Tilted  | 0mm      | 2/3         | 1513 | 1752.6      | 23.72               | 25.20               | 1.406                  | 0.19             | 0.039                  | 0.055                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Left Cheek    | 0mm      | 2/3         | 1513 | 1752.6      | 23.72               | 25.20               | 1.406                  | -0.07            | 0.052                  | 0.073                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Left Tilted   | 0mm      | 2/3         | 1513 | 1752.6      | 23.72               | 25.20               | 1.406                  | -0.15            | 0.051                  | 0.072                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Right Cheek   | 0mm      | 2/3         | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | 0.06             | 0.142                  | 0.167                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Right Tilted  | 0mm      | 2/3         | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | -0.18            | 0.088                  | 0.104                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Left Cheek    | 0mm      | 2/3         | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | -0.06            | 0.273                  | 0.321                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Left Cheek    | 0mm      | 2/3         | 4132 | 826.4       | 24.67               | 25.40               | 1.183                  | 0.17             | 0.219                  | 0.259                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Left Cheek    | 0mm      | 2/3         | 4233 | 846.6       | 24.67               | 25.40               | 1.183                  | -0.17            | 0.209                  | 0.247                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Left Tilted   | 0mm      | 2/3         | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | 0.02             | 0.121                  | 0.142                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 2           | 4233 | 846.6       | 21.96               | 23.30               | 1.361                  | -0.03            | 0.655                  | 0.892                  |
| 05       | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 2           | 4132 | 826.4       | 21.88               | 23.30               | 1.387                  | -0.13            | 0.782                  | 1.084                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 2           | 4182 | 836.4       | 21.94               | 23.30               | 1.368                  | -0.09            | 0.721                  | 0.986                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 2           | 4233 | 846.6       | 21.96               | 23.30               | 1.361                  | 0.05             | 0.506                  | 0.689                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 2           | 4233 | 846.6       | 21.96               | 23.30               | 1.361                  | 0                | 0.453                  | 0.617                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Tilted   | 0mm      | 2           | 4233 | 846.6       | 21.96               | 23.30               | 1.361                  | 0.01             | 0.390                  | 0.531                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 3           | 4233 | 846.6       | 21.96               | 22.10               | 1.033                  | -0.03            | 0.655                  | 0.676                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 3           | 4132 | 826.4       | 21.88               | 22.10               | 1.052                  | -0.13            | 0.782                  | 0.823                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 3           | 4182 | 836.4       | 21.94               | 22.10               | 1.038                  | -0.09            | 0.721                  | 0.748                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 3           | 4233 | 846.6       | 21.96               | 22.10               | 1.033                  | 0.05             | 0.506                  | 0.523                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 3           | 4233 | 846.6       | 21.96               | 22.10               | 1.033                  | 0                | 0.453                  | 0.468                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Tilted   | 0mm      | 3           | 4233 | 846.6       | 21.96               | 22.10               | 1.033                  | 0.01             | 0.390                  | 0.403                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

## <FDD LTE SAR>

| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 18900 | 1880        | 14.86               | 16.00               | 1.300                  | 0.13             | 0.816                  | 1.061                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 18700 | 1860        | 14.79               | 16.00               | 1.321                  | 0.01             | 0.748                  | 0.988                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 19100 | 1900        | 14.79               | 16.00               | 1.321                  | 0.05             | 0.751                  | 0.992                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 18900 | 1880        | 14.88               | 16.00               | 1.294                  | -0.02            | 0.786                  | 1.017                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 18700 | 1860        | 14.83               | 16.00               | 1.309                  | -0.03            | 0.765                  | 1.002                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 19100 | 1900        | 14.84               | 16.00               | 1.306                  | 0.04             | 0.748                  | 0.977                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 2           | 18900 | 1880        | 14.71               | 16.00               | 1.346                  | 0.01             | 0.754                  | 1.015                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 18900 | 1880        | 14.86               | 16.00               | 1.300                  | 0                | 0.796                  | 1.035                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 18700 | 1860        | 14.79               | 16.00               | 1.321                  | 0.06             | 0.772                  | 1.020                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 19100 | 1900        | 14.79               | 16.00               | 1.321                  | -0.07            | 0.763                  | 1.008                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 18900 | 1880        | 14.88               | 16.00               | 1.294                  | 0.18             | 0.818                  | 1.059                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 18700 | 1860        | 14.83               | 16.00               | 1.309                  | -0.04            | 0.777                  | 1.017                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 19100 | 1900        | 14.84               | 16.00               | 1.306                  | 0.05             | 0.755                  | 0.986                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | 2           | 18900 | 1880        | 14.71               | 16.00               | 1.346                  | 0.01             | 0.770                  | 1.036                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 18900 | 1880        | 14.86               | 16.00               | 1.300                  | 0.03             | 0.360                  | 0.468                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2           | 18900 | 1880        | 14.88               | 16.00               | 1.294                  | -0.02            | 0.356                  | 0.461                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2           | 18900 | 1880        | 14.86               | 16.00               | 1.300                  | 0.07             | 0.449                  | 0.584                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2           | 18900 | 1880        | 14.88               | 16.00               | 1.294                  | -0.08            | 0.448                  | 0.580                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 18900 | 1880        | 13.91               | 14.80               | 1.227                  | 0.03             | 0.667                  | 0.819                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 18700 | 1860        | 13.84               | 14.80               | 1.247                  | 0.02             | 0.590                  | 0.736                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 19100 | 1900        | 13.81               | 14.80               | 1.256                  | 0                | 0.592                  | 0.744                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 3           | 18900 | 1880        | 13.89               | 14.80               | 1.233                  | 0.05             | 0.619                  | 0.763                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 3           | 18900 | 1880        | 13.81               | 14.80               | 1.256                  | 0.04             | 0.595                  | 0.747                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 3           | 18900 | 1880        | 13.91               | 14.80               | 1.227                  | 0.1              | 0.628                  | 0.771                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 3           | 18900 | 1880        | 13.89               | 14.80               | 1.233                  | 0.08             | 0.645                  | 0.795                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 18900 | 1880        | 13.91               | 14.80               | 1.227                  | 0.01             | 0.284                  | 0.349                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 3           | 18900 | 1880        | 13.89               | 14.80               | 1.233                  | 0.05             | 0.281                  | 0.347                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 3           | 18900 | 1880        | 13.91               | 14.80               | 1.227                  | -0.04            | 0.354                  | 0.435                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 3           | 18900 | 1880        | 13.89               | 14.80               | 1.233                  | -0.03            | 0.353                  | 0.435                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 18700 | 1860        | 21.00               | 21.90               | 1.230                  | 0.01             | 0.764                  | 0.940                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 18900 | 1880        | 20.96               | 21.90               | 1.242                  | 0.05             | 0.624                  | 0.775                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 19100 | 1900        | 20.96               | 21.90               | 1.242                  | -0.03            | 0.632                  | 0.785                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 18700 | 1860        | 20.85               | 21.90               | 1.274                  | -0.06            | 0.774                  | 0.986                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 18900 | 1880        | 20.82               | 21.90               | 1.282                  | -0.04            | 0.618                  | 0.792                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 19100 | 1900        | 20.83               | 21.90               | 1.279                  | 0.05             | 0.621                  | 0.794                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 2           | 18700 | 1860        | 20.59               | 21.90               | 1.352                  | 0.01             | 0.695                  | 0.940                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 18700 | 1860        | 21.00               | 21.90               | 1.230                  | 0.02             | 0.097                  | 0.119                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 18700 | 1860        | 20.85               | 21.90               | 1.274                  | 0.07             | 0.096                  | 0.122                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 18700 | 1860        | 21.00               | 21.90               | 1.230                  | -0.04            | 0.841                  | 1.035                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 18900 | 1880        | 20.96               | 21.90               | 1.242                  | 0.06             | 0.849                  | 1.054                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 19100 | 1900        | 20.96               | 21.90               | 1.242                  | 0.08             | 0.770                  | 0.956                  |
| 06       | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2           | 18700 | 1860        | 20.85               | 21.90               | 1.274                  | -0.05            | 0.857                  | 1.091                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2           | 18900 | 1880        | 20.82               | 21.90               | 1.282                  | -0.02            | 0.841                  | 1.078                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2           | 19100 | 1900        | 20.83               | 21.90               | 1.279                  | 0.03             | 0.743                  | 0.951                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 100     | 0         | Left Cheek    | 0mm      | 2           | 18700 | 1860        | 20.59               | 21.90               | 1.352                  | 0                | 0.797                  | 1.078                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2           | 18700 | 1860        | 21.00               | 21.90               | 1.230                  | 0.04             | 0.142                  | 0.175                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2           | 18700 | 1860        | 20.85               | 21.90               | 1.274                  | -0.1             | 0.125                  | 0.159                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 18700 | 1860        | 19.98               | 20.70               | 1.180                  | 0.05             | 0.653                  | 0.771                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 3           | 18700 | 1860        | 19.84               | 20.70               | 1.219                  | -0.13            | 0.630                  | 0.768                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 3           | 18700 | 1860        | 19.98               | 20.70               | 1.180                  | 0.02             | 0.083                  | 0.098                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 3           | 18700 | 1860        | 19.84               | 20.70               | 1.219                  | -0.03            | 0.082                  | 0.100                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 18700 | 1860        | 19.98               | 20.70               | 1.180                  | -0.01            | 0.718                  | 0.847                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 18900 | 1880        | 19.91               | 20.70               | 1.199                  | 0                | 0.725                  | 0.870                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 19100 | 1900        | 19.91               | 20.70               | 1.199                  | 0.06             | 0.658                  | 0.789                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 3           | 18700 | 1860        | 19.84               | 20.70               | 1.219                  | 0.09             | 0.732                  | 0.892                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 3           | 18900 | 1880        | 19.82               | 20.70               | 1.225                  | 0.07             | 0.718                  | 0.879                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 3           | 19100 | 1900        | 19.83               | 20.70               | 1.222                  | -0.1             | 0.634                  | 0.775                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 100     | 0         | Left Cheek    | 0mm      | 3           | 18700 | 1860        | 19.55               | 20.70               | 1.303                  | 0.08             | 0.680                  | 0.886                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 3           | 18700 | 1860        | 19.98               | 20.70               | 1.180                  | 0.02             | 0.121                  | 0.143                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 3           | 18700 | 1860        | 19.84               | 20.70               | 1.219                  | 0.01             | 0.107                  | 0.130                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 07       | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 21100       | 2535        | 24.73               | 25.40               | 1.167                  | 0.01             | 0.511                  | 0.596                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 20850       | 2510        | 24.71               | 25.40               | 1.172                  | 0                | 0.452                  | 0.530                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 21350       | 2560        | 24.68               | 25.40               | 1.180                  | -0.13            | 0.577                  | 0.681                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 21100       | 2535        | 23.68               | 24.40               | 1.180                  | 0.05             | 0.403                  | 0.476                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 21100       | 2535        | 24.73               | 25.40               | 1.167                  | -0.02            | 0.120                  | 0.140                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 21100       | 2535        | 23.68               | 24.40               | 1.180                  | -0.04            | 0.094                  | 0.111                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 21100       | 2535        | 24.73               | 25.40               | 1.167                  | 0.03             | 0.219                  | 0.256                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 21100       | 2535        | 23.68               | 24.40               | 1.180                  | 0                | 0.174                  | 0.205                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 21100       | 2535        | 24.73               | 25.40               | 1.167                  | 0.01             | 0.172                  | 0.201                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 21100       | 2535        | 23.68               | 24.40               | 1.180                  | 0.05             | 0.138                  | 0.163                  |
|          | LTE Band 7C_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 21100+20920 | 2535        | 23.01               | 23.90               | 1.227                  | 0.01             | 0.449                  | 0.551                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 21100       | 2535        | 23.63               | 25.00               | 1.371                  | 0.01             | 0.184                  | 0.252                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 21100       | 2535        | 22.55               | 24.00               | 1.396                  | 0.02             | 0.146                  | 0.204                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 21100       | 2535        | 23.63               | 25.00               | 1.371                  | -0.03            | 0.146                  | 0.200                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 21100       | 2535        | 22.55               | 24.00               | 1.396                  | 0                | 0.110                  | 0.154                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 21100       | 2535        | 23.63               | 25.00               | 1.371                  | 0.04             | 0.415                  | 0.569                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 20850       | 2510        | 23.61               | 25.00               | 1.377                  | -0.02            | 0.392                  | 0.540                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 21350       | 2560        | 23.58               | 25.00               | 1.387                  | 0.04             | 0.429                  | 0.595                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 21100       | 2535        | 22.55               | 24.00               | 1.396                  | -0.05            | 0.326                  | 0.455                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 21100       | 2535        | 23.63               | 25.00               | 1.371                  | 0.06             | 0.096                  | 0.132                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 21100       | 2535        | 22.55               | 24.00               | 1.396                  | 0.1              | 0.073                  | 0.102                  |
|          | LTE Band 7C_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 21100+20920 | 2535        | 23.09               | 23.90               | 1.205                  | 0.08             | 0.276                  | 0.333                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | 0.03             | 0.133                  | 0.160                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 2/3         | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | 0.01             | 0.110                  | 0.132                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | 0.08             | 0.060                  | 0.072                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 2/3         | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | 0.15             | 0.050                  | 0.060                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | 0.03             | 0.236                  | 0.283                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 2/3         | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | 0.02             | 0.178                  | 0.214                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | 0.03             | 0.103                  | 0.124                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 2/3         | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | 0.09             | 0.086                  | 0.103                  |
| 08       | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 23095       | 707.5       | 23.30               | 23.90               | 1.148                  | 0.02             | 0.855                  | 0.982                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 2           | 23095       | 707.5       | 23.28               | 23.90               | 1.153                  | 0                | 0.868                  | 1.001                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 23095       | 707.5       | 23.27               | 23.90               | 1.156                  | -0.09            | 0.868                  | 1.004                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 23095       | 707.5       | 23.30               | 23.90               | 1.148                  | -0.01            | 0.759                  | 0.871                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 2           | 23095       | 707.5       | 23.28               | 23.90               | 1.153                  | 0.05             | 0.768                  | 0.886                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 23095       | 707.5       | 23.27               | 23.90               | 1.156                  | 0.03             | 0.751                  | 0.868                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 23095       | 707.5       | 23.30               | 23.90               | 1.148                  | -0.02            | 0.608                  | 0.698                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 2           | 23095       | 707.5       | 23.28               | 23.90               | 1.153                  | 0.04             | 0.619                  | 0.714                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2           | 23095       | 707.5       | 23.30               | 23.90               | 1.148                  | -0.06            | 0.612                  | 0.703                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 2           | 23095       | 707.5       | 23.28               | 23.90               | 1.153                  | 0.1              | 0.589                  | 0.679                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 23095       | 707.5       | 22.13               | 22.70               | 1.140                  | 0.05             | 0.777                  | 0.886                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 3           | 23095       | 707.5       | 22.15               | 22.70               | 1.135                  | 0.02             | 0.785                  | 0.891                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 3           | 23095       | 707.5       | 22.16               | 22.70               | 1.132                  | 0.14             | 0.789                  | 0.893                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 3           | 23095       | 707.5       | 22.13               | 22.70               | 1.140                  | -0.03            | 0.690                  | 0.787                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 3           | 23095       | 707.5       | 22.15               | 22.70               | 1.135                  | 0                | 0.698                  | 0.792                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 23095       | 707.5       | 22.13               | 22.70               | 1.140                  | 0.05             | 0.552                  | 0.629                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 3           | 23095       | 707.5       | 22.15               | 22.70               | 1.135                  | -0.1             | 0.562                  | 0.638                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 3           | 23095       | 707.5       | 22.13               | 22.70               | 1.140                  | -0.06            | 0.556                  | 0.634                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 3           | 23095       | 707.5       | 22.15               | 22.70               | 1.135                  | 0.02             | 0.536                  | 0.608                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 3           | 23095       | 707.5       | 22.15               | 22.70               | 1.135                  | 0.02             | 0.536                  | 0.608                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 23230 | 782         | 24.47               | 25.40               | 1.239                  | 0.01             | 0.198                  | 0.245                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 2/3         | 23230 | 782         | 23.50               | 24.40               | 1.230                  | -0.11            | 0.155                  | 0.191                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 23230 | 782         | 24.47               | 25.40               | 1.239                  | 0.05             | 0.149                  | 0.185                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 2/3         | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0.11             | 0.116                  | 0.143                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 23230 | 782         | 24.47               | 25.40               | 1.239                  | -0.1             | 0.315                  | 0.390                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 2/3         | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0.01             | 0.250                  | 0.308                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 23230 | 782         | 24.47               | 25.40               | 1.239                  | 0.09             | 0.190                  | 0.235                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 2/3         | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0.06             | 0.151                  | 0.186                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 23230 | 782         | 22.91               | 23.30               | 1.094                  | 0.05             | 0.918                  | 1.004                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 2           | 23230 | 782         | 22.91               | 23.30               | 1.094                  | -0.04            | 0.952                  | 1.041                  |
| 09       | LTE Band 13_Ant 1 | 10M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 23230 | 782         | 22.83               | 23.30               | 1.114                  | -0.06            | 0.943                  | 1.051                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 23230 | 782         | 22.91               | 23.30               | 1.094                  | 0.03             | 0.678                  | 0.742                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 2           | 23230 | 782         | 22.91               | 23.30               | 1.094                  | 0.02             | 0.704                  | 0.770                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 23230 | 782         | 22.91               | 23.30               | 1.094                  | 0.01             | 0.674                  | 0.737                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 2           | 23230 | 782         | 22.91               | 23.30               | 1.094                  | 0.05             | 0.696                  | 0.761                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2           | 23230 | 782         | 22.91               | 23.30               | 1.094                  | 0.01             | 0.604                  | 0.661                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 2           | 23230 | 782         | 22.91               | 23.30               | 1.094                  | 0.07             | 0.627                  | 0.686                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 23230 | 782         | 21.62               | 22.10               | 1.117                  | 0.01             | 0.767                  | 0.857                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 3           | 23230 | 782         | 21.59               | 22.10               | 1.125                  | 0                | 0.796                  | 0.895                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 3           | 23230 | 782         | 21.54               | 22.10               | 1.138                  | -0.08            | 0.788                  | 0.896                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 3           | 23230 | 782         | 21.62               | 22.10               | 1.117                  | 0.05             | 0.566                  | 0.632                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 3           | 23230 | 782         | 21.59               | 22.10               | 1.125                  | -0.02            | 0.589                  | 0.662                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 23230 | 782         | 21.62               | 22.10               | 1.117                  | -0.04            | 0.563                  | 0.629                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 3           | 23230 | 782         | 21.59               | 22.10               | 1.125                  | 0.05             | 0.582                  | 0.655                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 3           | 23230 | 782         | 21.62               | 22.10               | 1.117                  | 0.1              | 0.504                  | 0.563                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 3           | 23230 | 782         | 21.59               | 22.10               | 1.125                  | 0.08             | 0.524                  | 0.589                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 23330 | 793         | 24.55               | 25.40               | 1.216                  | 0.03             | 0.200                  | 0.243                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 2/3         | 23330 | 793         | 23.55               | 24.40               | 1.216                  | -0.01            | 0.159                  | 0.193                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 23330 | 793         | 24.55               | 25.40               | 1.216                  | -0.05            | 0.139                  | 0.169                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 2/3         | 23330 | 793         | 23.55               | 24.40               | 1.216                  | -0.11            | 0.111                  | 0.135                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 23330 | 793         | 24.55               | 25.40               | 1.216                  | -0.19            | 0.319                  | 0.388                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 2/3         | 23330 | 793         | 23.55               | 24.40               | 1.216                  | 0.15             | 0.248                  | 0.302                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 23330 | 793         | 24.55               | 25.40               | 1.216                  | -0.11            | 0.182                  | 0.221                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 2/3         | 23330 | 793         | 23.55               | 24.40               | 1.216                  | 0.12             | 0.143                  | 0.174                  |
| 10       | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 23330 | 793         | 22.70               | 23.40               | 1.175                  | -0.07            | 0.914                  | 1.074                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 2           | 23330 | 793         | 22.64               | 23.40               | 1.191                  | 0.01             | 0.729                  | 0.868                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 23330 | 793         | 22.61               | 23.40               | 1.199                  | 0                | 0.712                  | 0.854                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 23330 | 793         | 22.70               | 23.40               | 1.175                  | 0.05             | 0.538                  | 0.632                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 2           | 23330 | 793         | 22.64               | 23.40               | 1.191                  | -0.02            | 0.533                  | 0.635                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 23330 | 793         | 22.70               | 23.40               | 1.175                  | 0                | 0.624                  | 0.733                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 2           | 23330 | 793         | 22.64               | 23.40               | 1.191                  | 0.01             | 0.649                  | 0.773                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2           | 23330 | 793         | 22.70               | 23.40               | 1.175                  | -0.04            | 0.457                  | 0.537                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 2           | 23330 | 793         | 22.64               | 23.40               | 1.191                  | 0.06             | 0.456                  | 0.543                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 23330 | 793         | 21.23               | 22.20               | 1.250                  | -0.06            | 0.705                  | 0.881                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 3           | 23330 | 793         | 21.17               | 22.20               | 1.268                  | 0.01             | 0.562                  | 0.712                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 3           | 23330 | 793         | 21.13               | 22.20               | 1.279                  | 0                | 0.550                  | 0.704                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 3           | 23330 | 793         | 21.23               | 22.20               | 1.250                  | 0.05             | 0.415                  | 0.519                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 3           | 23330 | 793         | 21.17               | 22.20               | 1.268                  | -0.02            | 0.411                  | 0.521                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 23330 | 793         | 21.23               | 22.20               | 1.250                  | 0.03             | 0.481                  | 0.601                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 3           | 23330 | 793         | 21.17               | 22.20               | 1.268                  | 0.01             | 0.501                  | 0.635                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 3           | 23330 | 793         | 21.23               | 22.20               | 1.250                  | 0.02             | 0.353                  | 0.441                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 3           | 23330 | 793         | 21.17               | 22.20               | 1.268                  | 0.05             | 0.352                  | 0.446                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 11       | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 26340       | 1880        | 24.42               | 25.40               | 1.253                  | 0.01             | 0.629                  | 0.788                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 26140       | 1860        | 24.35               | 25.40               | 1.274                  | -0.03            | 0.657                  | 0.837                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 26590       | 1905        | 24.21               | 25.40               | 1.315                  | 0                | 0.594                  | 0.781                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 26340       | 1880        | 23.30               | 24.40               | 1.288                  | -0.01            | 0.487                  | 0.627                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 2/3         | 26340       | 1880        | 23.26               | 24.40               | 1.300                  | 0.01             | 0.467                  | 0.607                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 26340       | 1880        | 24.42               | 25.40               | 1.253                  | -0.04            | 0.287                  | 0.360                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 26340       | 1880        | 23.30               | 24.40               | 1.288                  | 0.05             | 0.240                  | 0.309                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 26340       | 1880        | 24.42               | 25.40               | 1.253                  | -0.02            | 0.233                  | 0.292                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 26340       | 1880        | 23.30               | 24.40               | 1.288                  | 0                | 0.214                  | 0.276                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 26340       | 1880        | 24.42               | 25.40               | 1.253                  | 0.01             | 0.198                  | 0.248                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 26340       | 1880        | 23.30               | 24.40               | 1.288                  | 0.06             | 0.201                  | 0.259                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 26340       | 1880        | 23.88               | 25.20               | 1.355                  | 0.05             | 0.045                  | 0.061                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 26340       | 1880        | 22.82               | 24.20               | 1.374                  | 0.01             | 0.001                  | 0.001                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 26340       | 1880        | 23.88               | 25.20               | 1.355                  | -0.06            | 0.001                  | 0.001                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 26340       | 1880        | 22.82               | 24.20               | 1.374                  | 0.03             | 0.001                  | 0.001                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 26340       | 1880        | 23.88               | 25.20               | 1.355                  | -0.18            | 0.062                  | 0.084                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 26140       | 1860        | 23.87               | 25.20               | 1.358                  | 0                | 0.054                  | 0.073                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 26590       | 1905        | 23.62               | 25.20               | 1.439                  | 0.01             | 0.054                  | 0.078                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 26340       | 1880        | 22.82               | 24.20               | 1.374                  | -0.04            | 0.041                  | 0.056                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 26340       | 1880        | 23.88               | 25.20               | 1.355                  | 0.05             | 0.001                  | 0.001                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 26340       | 1880        | 22.82               | 24.20               | 1.374                  | -0.1             | 0.001                  | 0.001                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | 0.01             | 0.180                  | 0.223                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Right Cheek   | 0mm      | 2/3         | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0                | 0.147                  | 0.183                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | 0.05             | 0.098                  | 0.122                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Right Tilted  | 0mm      | 2/3         | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | -0.02            | 0.082                  | 0.102                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | -0.16            | 0.286                  | 0.355                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Left Cheek    | 0mm      | 2/3         | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | -0.03            | 0.230                  | 0.286                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | 0.01             | 0.135                  | 0.168                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Left Tilted   | 0mm      | 2/3         | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0.07             | 0.114                  | 0.142                  |
|          | LTE Band 5B_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 20525+20624 | 836.5       | 23.07               | 23.70               | 1.156                  | 0.02             | 0.240                  | 0.277                  |
| 12       | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 26865       | 831.5       | 22.91               | 23.90               | 1.256                  | -0.14            | 0.834                  | 1.048                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Right Cheek   | 0mm      | 2           | 26865       | 831.5       | 22.91               | 23.40               | 1.119                  | 0.01             | 0.824                  | 0.922                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 75      | 0         | Right Cheek   | 0mm      | 2           | 26865       | 831.5       | 22.85               | 23.40               | 1.135                  | 0.05             | 0.789                  | 0.896                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 26865       | 831.5       | 22.91               | 23.90               | 1.256                  | -0.02            | 0.680                  | 0.854                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Right Tilted  | 0mm      | 2           | 26865       | 831.5       | 22.91               | 23.40               | 1.119                  | 0.03             | 0.672                  | 0.752                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 75      | 0         | Right Tilted  | 0mm      | 2           | 26865       | 831.5       | 22.85               | 23.40               | 1.135                  | -0.01            | 0.640                  | 0.726                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 26865       | 831.5       | 22.91               | 23.90               | 1.256                  | 0                | 0.624                  | 0.784                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Left Cheek    | 0mm      | 2           | 26865       | 831.5       | 22.91               | 23.40               | 1.119                  | 0.04             | 0.637                  | 0.713                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2           | 26865       | 831.5       | 22.91               | 23.90               | 1.256                  | 0.07             | 0.562                  | 0.706                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Left Tilted   | 0mm      | 2           | 26865       | 831.5       | 22.91               | 23.40               | 1.119                  | 0.05             | 0.552                  | 0.618                  |
|          | LTE Band 5B_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 20525+20624 | 836.5       | 23.89               | 23.90               | 1.002                  | 0.01             | 0.628                  | 0.629                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 26865       | 831.5       | 22.05               | 22.70               | 1.161                  | -0.16            | 0.613                  | 0.712                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Right Cheek   | 0mm      | 3           | 26865       | 831.5       | 21.31               | 22.70               | 1.377                  | -0.13            | 0.590                  | 0.813                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 75      | 0         | Right Cheek   | 0mm      | 3           | 26865       | 831.5       | 21.26               | 22.70               | 1.393                  | -0.08            | 0.559                  | 0.779                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 3           | 26865       | 831.5       | 21.35               | 22.70               | 1.365                  | 0.02             | 0.496                  | 0.677                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Right Tilted  | 0mm      | 3           | 26865       | 831.5       | 21.31               | 22.70               | 1.377                  | -0.05            | 0.474                  | 0.653                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 26865       | 831.5       | 21.35               | 22.70               | 1.365                  | 0                | 0.476                  | 0.650                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Left Cheek    | 0mm      | 3           | 26865       | 831.5       | 21.31               | 22.70               | 1.377                  | 0.03             | 0.454                  | 0.625                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 3           | 26865       | 831.5       | 21.35               | 22.70               | 1.365                  | -0.06            | 0.420                  | 0.573                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Left Tilted   | 0mm      | 3           | 26865       | 831.5       | 21.31               | 22.70               | 1.377                  | 0.08             | 0.404                  | 0.556                  |
|          | LTE Band 5B_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 20525+20624 | 836.5       | 21.55               | 22.70               | 1.303                  | 0.02             | 0.365                  | 0.476                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 13       | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 27710 | 2310        | 24.22               | 24.30               | 1.019                  | -0.01            | 0.593                  | 0.604                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 2/3         | 27710 | 2310        | 23.16               | 23.30               | 1.033                  | 0.02             | 0.454                  | 0.469                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 27710 | 2310        | 24.22               | 24.30               | 1.019                  | 0                | 0.206                  | 0.210                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 2/3         | 27710 | 2310        | 23.16               | 23.30               | 1.033                  | 0.05             | 0.160                  | 0.165                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 27710 | 2310        | 24.22               | 24.30               | 1.019                  | -0.03            | 0.305                  | 0.311                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 2/3         | 27710 | 2310        | 23.16               | 23.30               | 1.033                  | 0.01             | 0.218                  | 0.225                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 27710 | 2310        | 24.22               | 24.30               | 1.019                  | 0.07             | 0.291                  | 0.296                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 2/3         | 27710 | 2310        | 23.16               | 23.30               | 1.033                  | -0.1             | 0.233                  | 0.241                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 27710 | 2310        | 23.27               | 24.50               | 1.327                  | 0.01             | 0.104                  | 0.138                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 2/3         | 27710 | 2310        | 22.25               | 23.50               | 1.334                  | 0                | 0.082                  | 0.109                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 27710 | 2310        | 23.27               | 24.50               | 1.327                  | 0.02             | 0.060                  | 0.080                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 2/3         | 27710 | 2310        | 22.25               | 23.50               | 1.334                  | -0.03            | 0.001                  | 0.001                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 27710 | 2310        | 23.27               | 24.50               | 1.327                  | -0.01            | 0.211                  | 0.280                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 2/3         | 27710 | 2310        | 22.25               | 23.50               | 1.334                  | -0.05            | 0.166                  | 0.221                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 27710 | 2310        | 23.27               | 24.50               | 1.327                  | 0.04             | 0.065                  | 0.086                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 2/3         | 27710 | 2310        | 22.25               | 23.50               | 1.334                  | 0.1              | 0.052                  | 0.069                  |

| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.           | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-------------|---------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 132322        | 1745        | 24.63               | 25.40               | 1.194                  | 0.01             | 0.526                  | 0.628                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 132072        | 1720        | 24.31               | 25.40               | 1.285                  | 0                | 0.465                  | 0.598                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 132572        | 1770        | 24.60               | 25.40               | 1.202                  | -0.02            | 0.615                  | 0.739                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 132322        | 1745        | 23.50               | 24.40               | 1.230                  | 0.05             | 0.433                  | 0.533                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 132322        | 1745        | 24.63               | 25.40               | 1.194                  | -0.04            | 0.295                  | 0.352                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 132322        | 1745        | 23.50               | 24.40               | 1.230                  | 0.03             | 0.244                  | 0.300                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 132322        | 1745        | 24.63               | 25.40               | 1.194                  | 0.02             | 0.266                  | 0.318                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 132322        | 1745        | 23.50               | 24.40               | 1.230                  | 0.05             | 0.218                  | 0.268                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 132322        | 1745        | 24.63               | 25.40               | 1.194                  | -0.04            | 0.306                  | 0.365                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 132322        | 1745        | 23.50               | 24.40               | 1.230                  | 0.1              | 0.228                  | 0.281                  |
|          | LTE Band 66B_Ant 2 | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 132322+132229 | 1745        | 22.83               | 23.80               | 1.250                  | 0.05             | 0.371                  | 0.464                  |
|          | LTE Band 66C_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 132322+132124 | 1745        | 23.23               | 23.80               | 1.140                  | 0.03             | 0.410                  | 0.468                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 132322        | 1745        | 23.82               | 25.20               | 1.374                  | 0.01             | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 132322        | 1745        | 22.76               | 24.20               | 1.393                  | 0.05             | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 132322        | 1745        | 23.82               | 25.20               | 1.374                  | -0.02            | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 132322        | 1745        | 22.76               | 24.20               | 1.393                  | 0                | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 132322        | 1745        | 23.82               | 25.20               | 1.374                  | 0.07             | 0.073                  | 0.100                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 132072        | 1720        | 23.81               | 25.20               | 1.377                  | -0.18            | 0.087                  | 0.120                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 132572        | 1770        | 23.54               | 25.20               | 1.466                  | -0.1             | 0.070                  | 0.103                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 132322        | 1745        | 22.76               | 24.20               | 1.393                  | 0.05             | 0.059                  | 0.082                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 132322        | 1745        | 23.82               | 25.20               | 1.374                  | -0.03            | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 132322        | 1745        | 22.76               | 24.20               | 1.393                  | 0.04             | 0.001                  | 0.001                  |
|          | LTE Band 66B_Ant 0 | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 132322+132229 | 1745        | 22.97               | 23.80               | 1.211                  | -0.09            | 0.040                  | 0.048                  |
|          | LTE Band 66C_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 132322+132124 | 1745        | 23.26               | 23.80               | 1.132                  | -0.05            | 0.043                  | 0.049                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 132072        | 1720        | 17.57               | 18.00               | 1.104                  | 0.05             | 0.689                  | 0.761                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 132072        | 1720        | 17.38               | 18.00               | 1.153                  | 0.02             | 0.691                  | 0.797                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 132072        | 1720        | 17.57               | 18.00               | 1.104                  | -0.03            | 0.794                  | 0.877                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 132322        | 1745        | 17.49               | 18.00               | 1.125                  | -0.05            | 0.934                  | 1.050                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 132572        | 1770        | 17.57               | 18.00               | 1.104                  | 0.01             | 0.982                  | 1.084                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 132072        | 1720        | 17.38               | 18.00               | 1.153                  | 0                | 0.834                  | 0.962                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 132322        | 1745        | 17.34               | 18.00               | 1.164                  | 0.06             | 0.946                  | 1.101                  |
| 14       | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 132572        | 1770        | 17.33               | 18.00               | 1.167                  | 0.03             | 0.985                  | 1.149                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | 2           | 132072        | 1720        | 17.10               | 18.00               | 1.230                  | 0.02             | 0.856                  | 1.053                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 132072        | 1720        | 17.57               | 18.00               | 1.104                  | -0.01            | 0.371                  | 0.410                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2           | 132072        | 1720        | 17.38               | 18.00               | 1.153                  | 0.04             | 0.379                  | 0.437                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2           | 132072        | 1720        | 17.57               | 18.00               | 1.104                  | -0.07            | 0.389                  | 0.429                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2           | 132072        | 1720        | 17.38               | 18.00               | 1.153                  | 0.08             | 0.408                  | 0.471                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

|  |                   |     |      |     |   |              |     |   |        |      |       |       |       |       |       |       |
|--|-------------------|-----|------|-----|---|--------------|-----|---|--------|------|-------|-------|-------|-------|-------|-------|
|  | LTE Band 66_Ant 1 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | 3 | 132072 | 1720 | 16.58 | 16.80 | 1.052 | 0.01  | 0.592 | 0.623 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | 3 | 132072 | 1720 | 16.44 | 16.80 | 1.086 | 0     | 0.593 | 0.644 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 3 | 132072 | 1720 | 16.58 | 16.80 | 1.052 | 0.05  | 0.612 | 0.644 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 3 | 132072 | 1720 | 16.44 | 16.80 | 1.086 | -0.04 | 0.643 | 0.699 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 3 | 132322 | 1745 | 16.39 | 16.80 | 1.099 | -0.03 | 0.729 | 0.801 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 3 | 132572 | 1770 | 16.40 | 16.80 | 1.096 | 0.07  | 0.759 | 0.832 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 100 | 0 | Right Tilted | 0mm | 3 | 132072 | 1720 | 16.01 | 16.80 | 1.199 | 0.01  | 0.660 | 0.792 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 3 | 132072 | 1720 | 16.58 | 16.80 | 1.052 | 0.07  | 0.286 | 0.301 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 3 | 132072 | 1720 | 16.44 | 16.80 | 1.086 | -0.08 | 0.292 | 0.317 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 3 | 132072 | 1720 | 16.58 | 16.80 | 1.052 | -0.02 | 0.299 | 0.315 |
|  | LTE Band 66_Ant 1 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 3 | 132072 | 1720 | 16.44 | 16.80 | 1.086 | 0.04  | 0.314 | 0.341 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | 2 | 132072 | 1720 | 24.60 | 24.70 | 1.023 | 0.01  | 0.582 | 0.596 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | 2 | 132072 | 1720 | 23.45 | 24.20 | 1.189 | 0.03  | 0.490 | 0.582 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 2 | 132072 | 1720 | 24.60 | 24.70 | 1.023 | 0.05  | 0.081 | 0.083 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 2 | 132072 | 1720 | 23.45 | 24.20 | 1.189 | -0.04 | 0.063 | 0.075 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 2 | 132072 | 1720 | 24.60 | 24.70 | 1.023 | -0.02 | 0.858 | 0.878 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 2 | 132322 | 1745 | 24.48 | 24.70 | 1.052 | 0.01  | 0.833 | 0.876 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 2 | 132572 | 1770 | 24.19 | 24.70 | 1.125 | -0.03 | 0.938 | 1.055 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 2 | 132072 | 1720 | 23.45 | 24.20 | 1.189 | 0.01  | 0.694 | 0.825 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 2 | 132322 | 1745 | 23.31 | 24.20 | 1.227 | 0.05  | 0.665 | 0.816 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 2 | 132572 | 1770 | 22.99 | 24.20 | 1.321 | -0.03 | 0.792 | 1.046 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 100 | 0 | Left Cheek   | 0mm | 2 | 132072 | 1720 | 23.41 | 24.20 | 1.199 | 0.06  | 0.652 | 0.782 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 2 | 132072 | 1720 | 24.60 | 24.70 | 1.023 | 0     | 0.133 | 0.136 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 2 | 132072 | 1720 | 23.45 | 24.20 | 1.189 | 0.1   | 0.110 | 0.131 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | 3 | 132072 | 1720 | 23.18 | 23.50 | 1.076 | 0.02  | 0.480 | 0.517 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | 3 | 132072 | 1720 | 23.15 | 23.50 | 1.084 | 0     | 0.496 | 0.538 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 3 | 132072 | 1720 | 23.18 | 23.50 | 1.076 | 0.05  | 0.064 | 0.069 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 3 | 132072 | 1720 | 23.15 | 23.50 | 1.084 | -0.03 | 0.065 | 0.070 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 3 | 132072 | 1720 | 23.18 | 23.50 | 1.076 | -0.04 | 0.599 | 0.645 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 3 | 132322 | 1745 | 23.14 | 23.50 | 1.086 | 0.06  | 0.569 | 0.618 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 3 | 132572 | 1770 | 23.17 | 23.50 | 1.079 | -0.1  | 0.760 | 0.820 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 3 | 132072 | 1720 | 23.15 | 23.50 | 1.084 | 0.1   | 0.519 | 0.563 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 100 | 0 | Left Cheek   | 0mm | 3 | 132072 | 1720 | 23.11 | 23.50 | 1.094 | 0.08  | 0.537 | 0.587 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 3 | 132072 | 1720 | 23.18 | 23.50 | 1.076 | -0.02 | 0.098 | 0.105 |
|  | LTE Band 66_Ant 5 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 3 | 132072 | 1720 | 23.15 | 23.50 | 1.084 | -0.01 | 0.102 | 0.111 |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | 0.01             | 0.129                  | 0.148                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | 0.02             | 0.099                  | 0.114                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | -0.03            | 0.073                  | 0.084                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | 0                | 0.057                  | 0.066                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | -0.04            | 0.186                  | 0.214                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | 0.05             | 0.157                  | 0.181                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | -0.07            | 0.094                  | 0.108                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | 0.1              | 0.077                  | 0.089                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2           | 133297 | 680.5       | 22.99               | 24.40               | 1.384                  | -0.07            | 0.720                  | 0.996                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 133297 | 680.5       | 22.86               | 24.40               | 1.426                  | 0.01             | 0.809                  | 1.153                  |
| 15       | LTE Band 71_Ant 1 | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 2           | 133297 | 680.5       | 22.78               | 24.40               | 1.452                  | -0.02            | 0.810                  | 1.176                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2           | 133297 | 680.5       | 22.99               | 24.40               | 1.384                  | 0                | 0.733                  | 1.014                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2           | 133297 | 680.5       | 22.86               | 24.40               | 1.426                  | -0.05            | 0.736                  | 1.049                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | 2           | 133297 | 680.5       | 22.78               | 24.40               | 1.452                  | 0.02             | 0.722                  | 1.048                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2           | 133297 | 680.5       | 22.99               | 24.40               | 1.384                  | 0.03             | 0.512                  | 0.708                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2           | 133297 | 680.5       | 22.86               | 24.40               | 1.426                  | -0.04            | 0.585                  | 0.834                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 100     | 0         | Left Cheek    | 0mm      | 2           | 133297 | 680.5       | 22.78               | 24.40               | 1.452                  | -0.02            | 0.676                  | 0.982                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2           | 133297 | 680.5       | 22.99               | 24.40               | 1.384                  | 0.02             | 0.563                  | 0.779                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2           | 133297 | 680.5       | 22.86               | 24.40               | 1.426                  | 0.05             | 0.621                  | 0.885                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 100     | 0         | Left Tilted   | 0mm      | 2           | 133297 | 680.5       | 22.78               | 24.40               | 1.452                  | 0.13             | 0.608                  | 0.883                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 3           | 133297 | 680.5       | 22.99               | 23.20               | 1.050                  | -0.07            | 0.720                  | 0.756                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 3           | 133297 | 680.5       | 22.86               | 23.20               | 1.081                  | 0.01             | 0.809                  | 0.875                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 3           | 133297 | 680.5       | 22.78               | 23.20               | 1.102                  | -0.02            | 0.810                  | 0.892                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 3           | 133297 | 680.5       | 22.99               | 23.20               | 1.050                  | 0                | 0.733                  | 0.769                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 3           | 133297 | 680.5       | 22.86               | 23.20               | 1.081                  | -0.05            | 0.736                  | 0.796                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 3           | 133297 | 680.5       | 22.99               | 23.20               | 1.050                  | 0.03             | 0.512                  | 0.537                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 3           | 133297 | 680.5       | 22.86               | 23.20               | 1.081                  | -0.04            | 0.585                  | 0.633                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 3           | 133297 | 680.5       | 22.99               | 23.20               | 1.050                  | 0.02             | 0.563                  | 0.591                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 3           | 133297 | 680.5       | 22.86               | 23.20               | 1.081                  | 0.05             | 0.621                  | 0.672                  |



## &lt;TDD LTE SAR&gt;

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | 0.01             | 0.269                  | 0.311                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 39750       | 2506        | 24.29               | 25.40               | 1.291                  | 62.9         | 1.006                     | -0.11            | 0.293                  | 0.381                  |
| 16       | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 40620       | 2593        | 24.59               | 25.40               | 1.205                  | 62.9         | 1.006                     | -0.11            | 0.325                  | 0.394                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 41055       | 2636.5      | 24.54               | 25.40               | 1.219                  | 62.9         | 1.006                     | 0                | 0.293                  | 0.359                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 41490       | 2680        | 24.58               | 25.40               | 1.208                  | 62.9         | 1.006                     | 0.13             | 0.188                  | 0.228                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | 2/3         | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | 0.01             | 0.172                  | 0.196                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | 0.13             | 0.083                  | 0.096                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | 2/3         | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | 0.11             | 0.066                  | 0.075                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | -0.05            | 0.101                  | 0.117                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Left Cheek    | 0mm      | 2/3         | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | 0.03             | 0.063                  | 0.072                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | -0.1             | 0.119                  | 0.137                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Left Tilted   | 0mm      | 2/3         | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | -0.11            | 0.076                  | 0.087                  |
|          | LTE Band 41 HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 40185       | 2549.5      | 26.38               | 26.90               | 1.127                  | 42.9         | 1.009                     | -0.19            | 0.310                  | 0.353                  |
|          | LTE Band 41C_Ant 2     | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 40620+40422 | 2593        | 23.58               | 23.90               | 1.076                  | 62.9         | 1.006                     | 0.03             | 0.256                  | 0.277                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 40185       | 2549.5      | 24.78               | 25.40               | 1.153                  | 62.9         | 1.006                     | -0.05            | 0.136                  | 0.158                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 40185       | 2549.5      | 22.77               | 23.40               | 1.156                  | 62.9         | 1.006                     | 0.02             | 0.089                  | 0.104                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 40185       | 2549.5      | 24.78               | 25.40               | 1.153                  | 62.9         | 1.006                     | 0.03             | 0.056                  | 0.065                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 40185       | 2549.5      | 22.77               | 23.40               | 1.156                  | 62.9         | 1.006                     | 0.09             | 0.038                  | 0.044                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 40185       | 2549.5      | 24.78               | 25.40               | 1.153                  | 62.9         | 1.006                     | -0.06            | 0.239                  | 0.277                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 39750       | 2506        | 24.18               | 25.40               | 1.324                  | 62.9         | 1.006                     | -0.02            | 0.224                  | 0.298                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 40620       | 2593        | 24.49               | 25.40               | 1.233                  | 62.9         | 1.006                     | 0.06             | 0.279                  | 0.346                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 41055       | 2636.5      | 24.21               | 25.40               | 1.315                  | 62.9         | 1.006                     | 0.14             | 0.273                  | 0.361                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 41490       | 2680        | 24.43               | 25.40               | 1.250                  | 62.9         | 1.006                     | 0.09             | 0.230                  | 0.289                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 40185       | 2549.5      | 22.77               | 23.40               | 1.156                  | 62.9         | 1.006                     | 0.02             | 0.159                  | 0.185                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 40185       | 2549.5      | 24.78               | 25.40               | 1.153                  | 62.9         | 1.006                     | 0.01             | 0.059                  | 0.068                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 40185       | 2549.5      | 22.77               | 23.40               | 1.156                  | 62.9         | 1.006                     | 0                | 0.030                  | 0.035                  |
|          | LTE Band 41 HPUE_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 40185       | 2549.5      | 26.32               | 26.90               | 1.143                  | 42.9         | 1.009                     | 0.1              | 0.278                  | 0.321                  |
|          | LTE Band 41C_Ant 0     | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 40620+40422 | 2593        | 23.27               | 23.90               | 1.156                  | 62.9         | 1.006                     | 0.08             | 0.206                  | 0.240                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 56640       | 3690        | 25.13               | 25.40               | 1.064                  | 62.9         | 1.006                     | 0.01             | 0.086                  | 0.092                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 56640       | 3690        | 24.11               | 24.40               | 1.069                  | 62.9         | 1.006                     | -0.12            | 0.075                  | 0.081                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 56640       | 3690        | 25.13               | 25.40               | 1.064                  | 62.9         | 1.006                     | 0.09             | 0.058                  | 0.062                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 56640       | 3690        | 24.11               | 24.40               | 1.069                  | 62.9         | 1.006                     | -0.15            | 0.048                  | 0.052                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 56640       | 3690        | 25.13               | 25.40               | 1.064                  | 62.9         | 1.006                     | -0.11            | 0.209                  | 0.224                  |
| 17       | LTE Band 48_Ant 6      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 55340       | 3560        | 24.30               | 25.40               | 1.288                  | 62.9         | 1.006                     | -0.01            | 0.191                  | 0.248                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 55830       | 3609        | 24.69               | 25.40               | 1.178                  | 62.9         | 1.006                     | -0.06            | 0.189                  | 0.224                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 56150       | 3641        | 24.88               | 25.40               | 1.127                  | 62.9         | 1.006                     | 0.03             | 0.212                  | 0.240                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 56640       | 3690        | 24.11               | 24.40               | 1.069                  | 62.9         | 1.006                     | 0.09             | 0.160                  | 0.172                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 56640       | 3690        | 25.13               | 25.40               | 1.064                  | 62.9         | 1.006                     | -0.1             | 0.056                  | 0.060                  |
|          | LTE Band 48_Ant 6      | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 56640       | 3690        | 24.11               | 24.40               | 1.069                  | 62.9         | 1.006                     | -0.15            | 0.045                  | 0.048                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 2/3         | 56640       | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | -0.11            | 0.024                  | 0.030                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 2/3         | 56640       | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | -0.09            | 0.016                  | 0.020                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 2/3         | 56640       | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | -0.01            | 0.022                  | 0.027                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 2/3         | 56640       | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | -0.05            | 0.015                  | 0.019                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 56640       | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | 0                | 0.025                  | 0.031                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 55340       | 3560        | 23.15               | 24.80               | 1.462                  | 62.9         | 1.006                     | -0.15            | 0.024                  | 0.035                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 55830       | 3609        | 23.41               | 24.80               | 1.377                  | 62.9         | 1.006                     | 0.02             | 0.019                  | 0.026                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 2/3         | 56150       | 3641        | 23.59               | 24.80               | 1.321                  | 62.9         | 1.006                     | 0.09             | 0.022                  | 0.029                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 2/3         | 56640       | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | -0.16            | 0.017                  | 0.021                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 2/3         | 56640       | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | -0.12            | 0.020                  | 0.025                  |
|          | LTE Band 48_Ant 7      | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 2/3         | 56640       | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | -0.03            | 0.011                  | 0.014                  |



## &lt;5G NR SAR&gt;

| Plot No. | Band         | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 2           | 376000 | 1880        | 16.10               | 17.00               | 1.230                  | 0.09             | 0.841                  | 1.035                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 2           | 372000 | 1860        | 16.01               | 17.00               | 1.256                  | 0.09             | 0.798                  | 1.002                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 2           | 380000 | 1900        | 16.02               | 17.00               | 1.253                  | 0.09             | 0.776                  | 0.972                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 2           | 376000 | 1880        | 15.92               | 17.00               | 1.282                  | 0.01             | 0.788                  | 1.010                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 2           | 372000 | 1860        | 15.83               | 17.00               | 1.309                  | 0.03             | 0.774                  | 1.013                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 2           | 380000 | 1900        | 15.91               | 17.00               | 1.285                  | 0.06             | 0.753                  | 0.968                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Cheek   | 0mm      | 2           | 376000 | 1880        | 15.87               | 17.00               | 1.297                  | 0.11             | 0.781                  | 1.013                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 2           | 376000 | 1880        | 16.10               | 17.00               | 1.230                  | 0.19             | 0.890                  | 1.095                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 2           | 372000 | 1860        | 16.01               | 17.00               | 1.256                  | 0.15             | 0.887                  | 1.114                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 2           | 380000 | 1900        | 16.02               | 17.00               | 1.253                  | -0.06            | 0.869                  | 1.089                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 2           | 376000 | 1880        | 15.92               | 17.00               | 1.282                  | 0.09             | 0.817                  | 1.048                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 2           | 372000 | 1860        | 15.83               | 17.00               | 1.309                  | 0.12             | 0.804                  | 1.053                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 2           | 380000 | 1900        | 15.91               | 17.00               | 1.285                  | 0.05             | 0.780                  | 1.003                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Tilted  | 0mm      | 2           | 376000 | 1880        | 15.87               | 17.00               | 1.297                  | 0.17             | 0.811                  | 1.052                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 2           | 376000 | 1880        | 16.10               | 17.00               | 1.230                  | 0.02             | 0.366                  | 0.450                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 2           | 376000 | 1880        | 15.92               | 17.00               | 1.282                  | -0.1             | 0.342                  | 0.439                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 2           | 376000 | 1880        | 16.10               | 17.00               | 1.230                  | -0.03            | 0.461                  | 0.567                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 2           | 376000 | 1880        | 15.92               | 17.00               | 1.282                  | -0.02            | 0.447                  | 0.573                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 3           | 376000 | 1880        | 15.06               | 15.80               | 1.186                  | 0.18             | 0.688                  | 0.816                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 3           | 372000 | 1860        | 15.01               | 15.80               | 1.199                  | 0.03             | 0.683                  | 0.819                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 3           | 380000 | 1900        | 14.98               | 15.80               | 1.208                  | -0.11            | 0.653                  | 0.789                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 3           | 376000 | 1880        | 14.91               | 15.80               | 1.227                  | -0.09            | 0.671                  | 0.824                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 3           | 372000 | 1860        | 14.86               | 15.80               | 1.242                  | -0.12            | 0.652                  | 0.810                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 3           | 380000 | 1900        | 14.81               | 15.80               | 1.256                  | 0.01             | 0.654                  | 0.821                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Cheek   | 0mm      | 3           | 376000 | 1880        | 14.87               | 15.80               | 1.239                  | -0.15            | 0.665                  | 0.824                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 3           | 376000 | 1880        | 15.06               | 15.80               | 1.186                  | 0.02             | 0.733                  | 0.869                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 3           | 372000 | 1860        | 15.01               | 15.80               | 1.199                  | 0.18             | 0.713                  | 0.855                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 3           | 380000 | 1900        | 14.98               | 15.80               | 1.208                  | 0.05             | 0.683                  | 0.825                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 3           | 376000 | 1880        | 14.91               | 15.80               | 1.227                  | 0.02             | 0.714                  | 0.876                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 3           | 372000 | 1860        | 14.86               | 15.80               | 1.242                  | 0.09             | 0.712                  | 0.884                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 3           | 380000 | 1900        | 14.81               | 15.80               | 1.256                  | -0.12            | 0.673                  | 0.845                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Tilted  | 0mm      | 3           | 376000 | 1880        | 14.87               | 15.80               | 1.239                  | -0.15            | 0.696                  | 0.862                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 3           | 376000 | 1880        | 15.06               | 15.80               | 1.186                  | 0.02             | 0.315                  | 0.374                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 3           | 376000 | 1880        | 14.91               | 15.80               | 1.227                  | 0.09             | 0.300                  | 0.368                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 3           | 376000 | 1880        | 15.06               | 15.80               | 1.186                  | -0.11            | 0.372                  | 0.441                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 3           | 376000 | 1880        | 14.91               | 15.80               | 1.227                  | -0.15            | 0.370                  | 0.454                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 2           | 376000 | 1880        | 21.68               | 22.30               | 1.153                  | 0.01             | 0.671                  | 0.774                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 2           | 376000 | 1880        | 21.56               | 22.30               | 1.186                  | 0.15             | 0.646                  | 0.766                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 2           | 376000 | 1880        | 21.68               | 22.30               | 1.153                  | 0.09             | 0.068                  | 0.078                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 2           | 376000 | 1880        | 21.56               | 22.30               | 1.186                  | -0.12            | 0.063                  | 0.075                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 2           | 376000 | 1880        | 21.68               | 22.30               | 1.153                  | -0.16            | 0.805                  | 0.929                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 2           | 372000 | 1860        | 21.67               | 22.30               | 1.156                  | -0.11            | 0.937                  | 1.083                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 2           | 380000 | 1900        | 21.61               | 22.30               | 1.172                  | 0.03             | 0.738                  | 0.865                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 2           | 376000 | 1880        | 21.56               | 22.30               | 1.186                  | -0.06            | 0.818                  | 0.970                  |
| 18       | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 2           | 372000 | 1860        | 21.52               | 22.30               | 1.197                  | -0.08            | 0.966                  | 1.156                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 2           | 380000 | 1900        | 21.53               | 22.30               | 1.194                  | -0.12            | 0.867                  | 1.035                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 100     | 0         | Left Cheek    | 0mm      | 2           | 376000 | 1880        | 21.45               | 22.30               | 1.216                  | -0.01            | 0.770                  | 0.936                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 2           | 376000 | 1880        | 21.68               | 22.30               | 1.153                  | -0.11            | 0.100                  | 0.115                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 2           | 376000 | 1880        | 21.56               | 22.30               | 1.186                  | -0.18            | 0.093                  | 0.110                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 3           | 376000 | 1880        | 20.69               | 21.10               | 1.099                  | 0.02             | 0.455                  | 0.500                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 3           | 376000 | 1880        | 20.55               | 21.10               | 1.135                  | 0                | 0.442                  | 0.502                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 3           | 376000 | 1880        | 20.69               | 21.10               | 1.099                  | 0.05             | 0.047                  | 0.052                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 3           | 376000 | 1880        | 20.55               | 21.10               | 1.135                  | -0.06            | 0.043                  | 0.049                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 3           | 376000 | 1880        | 20.69               | 21.10               | 1.099                  | 0.02             | 0.586                  | 0.644                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 3           | 376000 | 1880        | 20.55               | 21.10               | 1.135                  | -0.06            | 0.737                  | 0.837                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 3           | 372000 | 1860        | 20.46               | 21.10               | 1.159                  | -0.15            | 0.703                  | 0.815                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 3           | 380000 | 1900        | 20.54               | 21.10               | 1.138                  | 0.03             | 0.509                  | 0.579                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 100     | 0         | Left Cheek    | 0mm      | 3           | 376000 | 1880        | 20.47               | 21.10               | 1.156                  | -0.04            | 0.561                  | 0.649                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 3           | 376000 | 1880        | 20.69               | 21.10               | 1.099                  | -0.07            | 0.073                  | 0.080                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 3           | 376000 | 1880        | 20.55               | 21.10               | 1.135                  | 0.1              | 0.067                  | 0.076                  |



| Plot No. | Band         | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 2/3         | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | 0.01             | 0.208                  | 0.247                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 2/3         | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | 0.16             | 0.199                  | 0.242                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 2/3         | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | 0.07             | 0.132                  | 0.157                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 2/3         | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | -0.11            | 0.129                  | 0.157                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 2/3         | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | -0.02            | 0.344                  | 0.408                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 2/3         | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | -0.02            | 0.333                  | 0.405                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 2/3         | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | -0.14            | 0.187                  | 0.222                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 2/3         | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | 0.17             | 0.177                  | 0.215                  |
| 19       | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 2           | 167300 | 836.5       | 23.07               | 24.30               | 1.327                  | -0.1             | 0.890                  | 1.181                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 2           | 167300 | 836.5       | 22.92               | 24.30               | 1.374                  | -0.04            | 0.803                  | 1.103                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Cheek   | 0mm      | 2           | 167300 | 836.5       | 22.92               | 24.30               | 1.374                  | -0.08            | 0.813                  | 1.117                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 2           | 167300 | 836.5       | 23.07               | 24.30               | 1.327                  | -0.01            | 0.728                  | 0.966                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 2           | 167300 | 836.5       | 22.92               | 24.30               | 1.374                  | -0.17            | 0.677                  | 0.931                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Tilted  | 0mm      | 2           | 167300 | 836.5       | 22.92               | 24.30               | 1.374                  | -0.04            | 0.659                  | 0.905                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 2           | 167300 | 836.5       | 23.07               | 24.30               | 1.327                  | 0.18             | 0.649                  | 0.861                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 2           | 167300 | 836.5       | 22.92               | 24.30               | 1.374                  | -0.12            | 0.629                  | 0.864                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 100     | 0         | Left Cheek    | 0mm      | 2           | 167300 | 836.5       | 22.92               | 24.30               | 1.374                  | 0.03             | 0.617                  | 0.848                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 2           | 167300 | 836.5       | 23.07               | 24.30               | 1.327                  | 0.04             | 0.563                  | 0.747                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 2           | 167300 | 836.5       | 22.92               | 24.30               | 1.374                  | 0.15             | 0.535                  | 0.735                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 100     | 0         | Left Tilted   | 0mm      | 2           | 167300 | 836.5       | 22.92               | 24.30               | 1.374                  | 0.05             | 0.524                  | 0.720                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 3           | 167300 | 836.5       | 23.07               | 23.10               | 1.007                  | -0.1             | 0.890                  | 0.896                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 3           | 167300 | 836.5       | 22.92               | 23.10               | 1.042                  | -0.04            | 0.803                  | 0.837                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Cheek   | 0mm      | 3           | 167300 | 836.5       | 22.92               | 23.10               | 1.042                  | -0.04            | 0.813                  | 0.847                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 3           | 167300 | 836.5       | 23.07               | 23.10               | 1.007                  | -0.18            | 0.728                  | 0.733                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 3           | 167300 | 836.5       | 22.92               | 23.10               | 1.042                  | 0.04             | 0.677                  | 0.706                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 3           | 167300 | 836.5       | 23.07               | 23.10               | 1.007                  | -0.17            | 0.649                  | 0.653                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 3           | 167300 | 836.5       | 22.92               | 23.10               | 1.042                  | 0.08             | 0.629                  | 0.655                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 3           | 167300 | 836.5       | 23.07               | 23.10               | 1.007                  | 0.01             | 0.563                  | 0.567                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 3           | 167300 | 836.5       | 22.92               | 23.10               | 1.042                  | 0.19             | 0.535                  | 0.557                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 20       | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 507000 | 2535        | 24.36               | 25.40               | 1.271                  | -0.17            | 0.453                  | 0.576                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Right Cheek   | 0mm      | 2/3         | 507000 | 2535        | 24.07               | 25.40               | 1.358                  | -0.18            | 0.440                  | 0.598                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 507000 | 2535        | 24.36               | 25.40               | 1.271                  | 0.08             | 0.106                  | 0.135                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Right Tilted  | 0mm      | 2/3         | 507000 | 2535        | 24.07               | 25.40               | 1.358                  | -0.17            | 0.089                  | 0.121                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 507000 | 2535        | 24.36               | 25.40               | 1.271                  | -0.17            | 0.237                  | 0.300                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Left Cheek    | 0mm      | 2/3         | 507000 | 2535        | 24.07               | 25.40               | 1.358                  | -0.08            | 0.206                  | 0.280                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 507000 | 2535        | 24.36               | 25.40               | 1.271                  | -0.04            | 0.112                  | 0.142                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Left Tilted   | 0mm      | 2/3         | 507000 | 2535        | 24.07               | 25.40               | 1.358                  | 0.15             | 0.110                  | 0.149                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 507000 | 2535        | 23.77               | 25.00               | 1.327                  | -0.08            | 0.122                  | 0.162                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Right Cheek   | 0mm      | 2/3         | 507000 | 2535        | 23.56               | 25.00               | 1.393                  | -0.03            | 0.116                  | 0.161                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 507000 | 2535        | 23.77               | 25.00               | 1.327                  | 0.02             | 0.078                  | 0.104                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Right Tilted  | 0mm      | 2/3         | 507000 | 2535        | 23.56               | 25.00               | 1.393                  | 0.02             | 0.072                  | 0.101                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 507000 | 2535        | 23.77               | 25.00               | 1.327                  | 0.14             | 0.312                  | 0.414                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Left Cheek    | 0mm      | 2/3         | 507000 | 2535        | 23.56               | 25.00               | 1.393                  | -0.13            | 0.272                  | 0.379                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 507000 | 2535        | 23.77               | 25.00               | 1.327                  | 0.12             | 0.062                  | 0.082                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Left Tilted   | 0mm      | 2/3         | 507000 | 2535        | 23.56               | 25.00               | 1.393                  | 0.16             | 0.060                  | 0.084                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Right Cheek   | 0mm      | 2/3         | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | 0.1              | 0.133                  | 0.154                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Right Cheek   | 0mm      | 2/3         | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | 0.05             | 0.125                  | 0.146                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Right Tilted  | 0mm      | 2/3         | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | -0.08            | 0.069                  | 0.080                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Right Tilted  | 0mm      | 2/3         | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | -0.16            | 0.092                  | 0.108                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Left Cheek    | 0mm      | 2/3         | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | -0.11            | 0.231                  | 0.268                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Left Cheek    | 0mm      | 2/3         | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | 0.13             | 0.209                  | 0.244                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Left Tilted   | 0mm      | 2/3         | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | 0.01             | 0.115                  | 0.134                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Left Tilted   | 0mm      | 2/3         | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | 0.06             | 0.111                  | 0.130                  |
| 21       | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 141500 | 707.5       | 24.22               | 24.30               | 1.019                  | -0.03            | 1.170                  | 1.192                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Right Cheek   | 0mm      | 2           | 141500 | 707.5       | 24.14               | 24.30               | 1.038                  | 0.15             | 1.134                  | 1.176                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 75      | 0         | Right Cheek   | 0mm      | 2           | 141500 | 707.5       | 24.12               | 24.30               | 1.042                  | -0.04            | 1.125                  | 1.172                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 141500 | 707.5       | 24.22               | 24.30               | 1.019                  | -0.07            | 0.970                  | 0.989                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Right Tilted  | 0mm      | 2           | 141500 | 707.5       | 24.14               | 24.30               | 1.038                  | 0.15             | 0.961                  | 0.997                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 75      | 0         | Right Tilted  | 0mm      | 2           | 141500 | 707.5       | 24.12               | 24.30               | 1.042                  | 0.13             | 0.954                  | 0.994                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2           | 141500 | 707.5       | 24.22               | 24.30               | 1.019                  | 0.03             | 0.760                  | 0.774                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Left Cheek    | 0mm      | 2           | 141500 | 707.5       | 24.14               | 24.30               | 1.038                  | -0.19            | 0.764                  | 0.792                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2           | 141500 | 707.5       | 24.22               | 24.30               | 1.019                  | -0.18            | 0.750                  | 0.764                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Left Tilted   | 0mm      | 2           | 141500 | 707.5       | 24.14               | 24.30               | 1.038                  | 0.15             | 0.747                  | 0.775                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 141500 | 707.5       | 22.32               | 23.10               | 1.197                  | -0.06            | 0.750                  | 0.898                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Right Cheek   | 0mm      | 3           | 141500 | 707.5       | 22.13               | 23.10               | 1.250                  | 0.06             | 0.704                  | 0.880                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 75      | 0         | Right Cheek   | 0mm      | 3           | 141500 | 707.5       | 22.12               | 23.10               | 1.253                  | 0.03             | 0.708                  | 0.887                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 141500 | 707.5       | 22.32               | 23.10               | 1.197                  | -0.17            | 0.646                  | 0.773                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Right Tilted  | 0mm      | 3           | 141500 | 707.5       | 22.13               | 23.10               | 1.250                  | 0.06             | 0.615                  | 0.769                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 3           | 141500 | 707.5       | 22.32               | 23.10               | 1.197                  | 0.07             | 0.484                  | 0.580                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Left Cheek    | 0mm      | 3           | 141500 | 707.5       | 22.13               | 23.10               | 1.250                  | -0.12            | 0.479                  | 0.599                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 3           | 141500 | 707.5       | 22.32               | 23.10               | 1.197                  | -0.01            | 0.473                  | 0.567                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Left Tilted   | 0mm      | 3           | 141500 | 707.5       | 22.13               | 23.10               | 1.250                  | -0.11            | 0.464                  | 0.581                  |

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Right Cheek   | 0mm      | 2/3         | 158600 | 793         | 24.92               | 25.40               | 1.117                  | -0.02            | 0.167                  | 0.187                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Right Cheek   | 0mm      | 2/3         | 158600 | 793         | 24.79               | 25.40               | 1.151                  | -0.08            | 0.132                  | 0.152                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Right Tilted  | 0mm      | 2/3         | 158600 | 793         | 24.92               | 25.40               | 1.117                  | 0.02             | 0.116                  | 0.130                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Right Tilted  | 0mm      | 2/3         | 158600 | 793         | 24.79               | 25.40               | 1.151                  | -0.06            | 0.092                  | 0.106                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Left Cheek    | 0mm      | 2/3         | 158600 | 793         | 24.92               | 25.40               | 1.117                  | -0.04            | 0.267                  | 0.298                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Left Cheek    | 0mm      | 2/3         | 158600 | 793         | 24.79               | 25.40               | 1.151                  | 0.05             | 0.207                  | 0.238                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Left Tilted   | 0mm      | 2/3         | 158600 | 793         | 24.92               | 25.40               | 1.117                  | 0.05             | 0.152                  | 0.170                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Left Tilted   | 0mm      | 2/3         | 158600 | 793         | 24.79               | 25.40               | 1.151                  | 0                | 0.119                  | 0.137                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Right Cheek   | 0mm      | 2           | 158600 | 793         | 22.24               | 23.70               | 1.400                  | -0.09            | 0.720                  | 1.008                  |
| 22       | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Right Cheek   | 0mm      | 2           | 158600 | 793         | 22.19               | 23.70               | 1.416                  | -0.05            | 0.728                  | 1.031                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 50      | 0         | Right Cheek   | 0mm      | 2           | 158600 | 793         | 22.09               | 23.70               | 1.449                  | 0.14             | 0.709                  | 1.027                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Right Tilted  | 0mm      | 2           | 158600 | 793         | 22.24               | 23.70               | 1.400                  | 0.11             | 0.536                  | 0.750                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Right Tilted  | 0mm      | 2           | 158600 | 793         | 22.19               | 23.70               | 1.416                  | 0.14             | 0.531                  | 0.752                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Left Cheek    | 0mm      | 2           | 158600 | 793         | 22.24               | 23.70               | 1.400                  | 0.02             | 0.622                  | 0.871                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Left Cheek    | 0mm      | 2           | 158600 | 793         | 22.19               | 23.70               | 1.416                  | 0.17             | 0.647                  | 0.916                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 50      | 0         | Left Cheek    | 0mm      | 2           | 158600 | 793         | 22.09               | 23.70               | 1.449                  | 0.13             | 0.638                  | 0.924                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Left Tilted   | 0mm      | 2           | 158600 | 793         | 22.24               | 23.70               | 1.400                  | 0.04             | 0.455                  | 0.637                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Left Tilted   | 0mm      | 2           | 158600 | 793         | 22.19               | 23.70               | 1.416                  | 0.04             | 0.454                  | 0.643                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Right Cheek   | 0mm      | 3           | 158600 | 793         | 22.24               | 22.50               | 1.062                  | -0.09            | 0.720                  | 0.764                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Right Cheek   | 0mm      | 3           | 158600 | 793         | 22.19               | 22.50               | 1.074                  | -0.05            | 0.728                  | 0.782                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Right Tilted  | 0mm      | 3           | 158600 | 793         | 22.24               | 22.50               | 1.062                  | 0.11             | 0.536                  | 0.569                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Right Tilted  | 0mm      | 3           | 158600 | 793         | 22.19               | 22.50               | 1.074                  | 0.14             | 0.531                  | 0.570                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Left Cheek    | 0mm      | 3           | 158600 | 793         | 22.24               | 22.50               | 1.062                  | 0.02             | 0.660                  | 0.701                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Left Cheek    | 0mm      | 3           | 158600 | 793         | 22.19               | 22.50               | 1.074                  | 0.17             | 0.647                  | 0.695                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Left Tilted   | 0mm      | 3           | 158600 | 793         | 22.24               | 22.50               | 1.062                  | 0.04             | 0.455                  | 0.483                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Left Tilted   | 0mm      | 3           | 158600 | 793         | 22.19               | 22.50               | 1.074                  | 0.04             | 0.454                  | 0.488                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 23       | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 2           | 376500 | 1882.5      | 24.41               | 25.40               | 1.256                  | 0.16             | 0.821                  | 1.031                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 2           | 376500 | 1882.5      | 24.34               | 25.40               | 1.276                  | -0.1             | 0.667                  | 0.851                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 216     | 0         | Right Cheek   | 0mm      | 2           | 376500 | 1882.5      | 24.37               | 24.90               | 1.130                  | -0.01            | 0.656                  | 0.741                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 2           | 376500 | 1882.5      | 24.41               | 25.40               | 1.256                  | -0.17            | 0.342                  | 0.430                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 2           | 376500 | 1882.5      | 24.34               | 25.40               | 1.276                  | -0.15            | 0.333                  | 0.425                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 2           | 376500 | 1882.5      | 24.41               | 25.40               | 1.256                  | 0.02             | 0.354                  | 0.445                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 2           | 376500 | 1882.5      | 24.34               | 25.40               | 1.276                  | 0                | 0.328                  | 0.419                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 2           | 376500 | 1882.5      | 24.41               | 25.40               | 1.256                  | 0.06             | 0.317                  | 0.398                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 2           | 376500 | 1882.5      | 24.34               | 25.40               | 1.276                  | 0.16             | 0.290                  | 0.370                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 3           | 376500 | 1882.5      | 24.41               | 24.80               | 1.094                  | 0.16             | 0.821                  | 0.898                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 3           | 376500 | 1882.5      | 24.34               | 24.80               | 1.112                  | -0.1             | 0.667                  | 0.742                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 216     | 0         | Right Cheek   | 0mm      | 3           | 376500 | 1882.5      | 24.37               | 24.80               | 1.104                  | -0.01            | 0.656                  | 0.724                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 3           | 376500 | 1882.5      | 24.41               | 24.80               | 1.094                  | 0.11             | 0.342                  | 0.375                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 3           | 376500 | 1882.5      | 24.34               | 24.80               | 1.112                  | -0.01            | 0.333                  | 0.371                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 3           | 376500 | 1882.5      | 24.41               | 24.80               | 1.094                  | -0.18            | 0.355                  | 0.388                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 3           | 376500 | 1882.5      | 24.34               | 24.80               | 1.112                  | -0.1             | 0.329                  | 0.366                  |
| 24       | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 3           | 376500 | 1882.5      | 24.41               | 24.80               | 1.094                  | 0.12             | 0.318                  | 0.347                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 3           | 376500 | 1882.5      | 24.34               | 24.80               | 1.112                  | 0.1              | 0.290                  | 0.323                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 2/3         | 376500 | 1882.5      | 24.13               | 25.20               | 1.279                  | 0.19             | 0.037                  | 0.047                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 2/3         | 376500 | 1882.5      | 24.05               | 25.20               | 1.303                  | -0.01            | 0.036                  | 0.047                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 2/3         | 376500 | 1882.5      | 24.13               | 25.20               | 1.279                  | 0                | 0.001                  | 0.001                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 2/3         | 376500 | 1882.5      | 24.05               | 25.20               | 1.303                  | -0.02            | 0.001                  | 0.001                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 2/3         | 376500 | 1882.5      | 24.13               | 25.20               | 1.279                  | -0.09            | 0.050                  | 0.064                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 2/3         | 376500 | 1882.5      | 24.05               | 25.20               | 1.303                  | 0.09             | 0.046                  | 0.060                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 2/3         | 376500 | 1882.5      | 24.13               | 25.20               | 1.279                  | -0.11            | 0.001                  | 0.001                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 2/3         | 376500 | 1882.5      | 24.05               | 25.20               | 1.303                  | -0.03            | 0.001                  | 0.001                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 462000 | 2310        | 24.25               | 24.30               | 1.012                  | -0.15            | 0.636                  | 0.643                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Right Cheek   | 0mm      | 2/3         | 462000 | 2310        | 24.17               | 24.30               | 1.030                  | -0.17            | 0.645                  | 0.665                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 462000 | 2310        | 24.25               | 24.30               | 1.012                  | 0.01             | 0.189                  | 0.191                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Right Tilted  | 0mm      | 2/3         | 462000 | 2310        | 24.17               | 24.30               | 1.030                  | 0.03             | 0.186                  | 0.192                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 462000 | 2310        | 24.25               | 24.30               | 1.012                  | -0.04            | 0.336                  | 0.340                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Left Cheek    | 0mm      | 2/3         | 462000 | 2310        | 24.17               | 24.30               | 1.030                  | 0.15             | 0.316                  | 0.326                  |
| 25       | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 462000 | 2310        | 24.25               | 24.30               | 1.012                  | -0.13            | 0.303                  | 0.307                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Left Tilted   | 0mm      | 2/3         | 462000 | 2310        | 24.17               | 24.30               | 1.030                  | -0.09            | 0.296                  | 0.305                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Right Cheek   | 0mm      | 2/3         | 462000 | 2310        | 23.54               | 24.50               | 1.247                  | -0.16            | 0.086                  | 0.108                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Right Cheek   | 0mm      | 2/3         | 462000 | 2310        | 23.43               | 24.50               | 1.279                  | 0                | 0.085                  | 0.108                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Right Tilted  | 0mm      | 2/3         | 462000 | 2310        | 23.54               | 24.50               | 1.247                  | 0.12             | 0.066                  | 0.082                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Right Tilted  | 0mm      | 2/3         | 462000 | 2310        | 23.43               | 24.50               | 1.279                  | -0.07            | 0.065                  | 0.083                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Left Cheek    | 0mm      | 2/3         | 462000 | 2310        | 23.54               | 24.50               | 1.247                  | 0.13             | 0.201                  | 0.251                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Left Cheek    | 0mm      | 2/3         | 462000 | 2310        | 23.43               | 24.50               | 1.279                  | -0.1             | 0.179                  | 0.230                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Left Tilted   | 0mm      | 2/3         | 462000 | 2310        | 23.54               | 24.50               | 1.247                  | 0.08             | 0.054                  | 0.068                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Left Tilted   | 0mm      | 2/3         | 462000 | 2310        | 23.43               | 24.50               | 1.279                  | -0.02            | 0.053                  | 0.067                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 2/3         | 349000 | 1745        | 24.87               | 25.40               | 1.130                  | -0.04            | 0.160                  | 0.181                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 2/3         | 349000 | 1745        | 24.58               | 25.40               | 1.208                  | -0.13            | 0.161                  | 0.194                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 2/3         | 349000 | 1745        | 24.87               | 25.40               | 1.130                  | -0.09            | 0.084                  | 0.095                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 2/3         | 349000 | 1745        | 24.58               | 25.40               | 1.208                  | -0.06            | 0.087                  | 0.105                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 2/3         | 349000 | 1745        | 24.87               | 25.40               | 1.130                  | 0.08             | 0.086                  | 0.097                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 2/3         | 349000 | 1745        | 24.58               | 25.40               | 1.208                  | 0                | 0.071                  | 0.086                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 2/3         | 349000 | 1745        | 24.87               | 25.40               | 1.130                  | -0.09            | 0.095                  | 0.107                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 2/3         | 349000 | 1745        | 24.58               | 25.40               | 1.208                  | -0.06            | 0.085                  | 0.103                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 2/3         | 349000 | 1745        | 23.94               | 25.20               | 1.337                  | 0.08             | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 2/3         | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | 0.08             | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 2/3         | 349000 | 1745        | 23.94               | 25.20               | 1.337                  | 0.07             | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 2/3         | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | -0.08            | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 2/3         | 349000 | 1745        | 23.94               | 25.20               | 1.337                  | 0.05             | 0.043                  | 0.057                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 2/3         | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | 0.07             | 0.039                  | 0.053                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 2/3         | 349000 | 1745        | 23.94               | 25.20               | 1.337                  | -0.08            | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 2/3         | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | -0.05            | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 2           | 349000 | 1745        | 18.26               | 18.80               | 1.132                  | 0.01             | 0.962                  | 1.089                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 2           | 349000 | 1745        | 18.22               | 18.80               | 1.143                  | 0                | 0.923                  | 1.055                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 216     | 0         | Right Cheek   | 0mm      | 2           | 349000 | 1745        | 18.04               | 18.80               | 1.191                  | 0.05             | 0.901                  | 1.073                  |
| 25       | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 2           | 349000 | 1745        | 18.26               | 18.80               | 1.132                  | 0.13             | 1.030                  | 1.166                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 2           | 349000 | 1745        | 18.22               | 18.80               | 1.143                  | -0.01            | 0.978                  | 1.118                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 216     | 0         | Right Tilted  | 0mm      | 2           | 349000 | 1745        | 18.04               | 18.80               | 1.191                  | 0.04             | 0.972                  | 1.158                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 2           | 349000 | 1745        | 18.26               | 18.80               | 1.132                  | 0                | 0.525                  | 0.595                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 2           | 349000 | 1745        | 18.22               | 18.80               | 1.143                  | 0.02             | 0.455                  | 0.520                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 2           | 349000 | 1745        | 18.26               | 18.80               | 1.132                  | -0.06            | 0.607                  | 0.687                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 2           | 349000 | 1745        | 18.22               | 18.80               | 1.143                  | -0.1             | 0.553                  | 0.632                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 3           | 349000 | 1745        | 17.33               | 17.60               | 1.064                  | 0.01             | 0.755                  | 0.803                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 3           | 349000 | 1745        | 17.22               | 17.60               | 1.091                  | 0                | 0.724                  | 0.790                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 216     | 0         | Right Cheek   | 0mm      | 3           | 349000 | 1745        | 17.04               | 17.60               | 1.138                  | -0.02            | 0.710                  | 0.808                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 3           | 349000 | 1745        | 17.33               | 17.60               | 1.064                  | 0.05             | 0.780                  | 0.830                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 3           | 349000 | 1745        | 17.22               | 17.60               | 1.091                  | 0.18             | 0.808                  | 0.882                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 3           | 349000 | 1745        | 17.33               | 17.60               | 1.064                  | -0.02            | 0.356                  | 0.379                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 3           | 349000 | 1745        | 17.22               | 17.60               | 1.091                  | -0.03            | 0.364                  | 0.397                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 3           | 349000 | 1745        | 17.33               | 17.60               | 1.064                  | 0                | 0.436                  | 0.464                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 3           | 349000 | 1745        | 17.22               | 17.60               | 1.091                  | 0.05             | 0.468                  | 0.511                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 2           | 349000 | 1745        | 24.28               | 24.60               | 1.076                  | -0.04            | 0.815                  | 0.877                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 2           | 349000 | 1745        | 24.13               | 24.60               | 1.114                  | 0.01             | 0.807                  | 0.899                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 216     | 0         | Right Cheek   | 0mm      | 2           | 349000 | 1745        | 23.55               | 24.60               | 1.274                  | 0                | 0.671                  | 0.855                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 2           | 349000 | 1745        | 24.28               | 24.60               | 1.076                  | 0.02             | 0.104                  | 0.112                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 2           | 349000 | 1745        | 24.13               | 24.60               | 1.114                  | 0.05             | 0.100                  | 0.111                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 2           | 349000 | 1745        | 24.28               | 24.60               | 1.076                  | -0.13            | 1.080                  | 1.163                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 2           | 349000 | 1745        | 24.13               | 24.60               | 1.114                  | -0.14            | 0.968                  | 1.079                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 216     | 0         | Left Cheek    | 0mm      | 2           | 349000 | 1745        | 23.55               | 24.60               | 1.274                  | -0.07            | 0.850                  | 1.082                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 2           | 349000 | 1745        | 24.28               | 24.60               | 1.076                  | 0.06             | 0.164                  | 0.177                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 2           | 349000 | 1745        | 24.13               | 24.60               | 1.114                  | 0.1              | 0.157                  | 0.175                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Right Cheek   | 0mm      | 3           | 349000 | 1745        | 22.94               | 23.40               | 1.112                  | 0.01             | 0.614                  | 0.683                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Right Cheek   | 0mm      | 3           | 349000 | 1745        | 22.79               | 23.40               | 1.151                  | 0                | 0.611                  | 0.703                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Right Tilted  | 0mm      | 3           | 349000 | 1745        | 22.94               | 23.40               | 1.112                  | -0.06            | 0.069                  | 0.077                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Right Tilted  | 0mm      | 3           | 349000 | 1745        | 22.79               | 23.40               | 1.151                  | -0.07            | 0.063                  | 0.073                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Left Cheek    | 0mm      | 3           | 349000 | 1745        | 22.94               | 23.40               | 1.112                  | 0.02             | 0.728                  | 0.809                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Left Cheek    | 0mm      | 3           | 349000 | 1745        | 22.79               | 23.40               | 1.151                  | -0.09            | 0.730                  | 0.840                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 216     | 0         | Left Cheek    | 0mm      | 3           | 349000 | 1745        | 22.62               | 23.40               | 1.197                  | 0.04             | 0.698                  | 0.835                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Left Tilted   | 0mm      | 3           | 349000 | 1745        | 22.94               | 23.40               | 1.112                  | -0.05            | 0.108                  | 0.120                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Left Tilted   | 0mm      | 3           | 349000 | 1745        | 22.79               | 23.40               | 1.151                  | -0.03            | 0.106                  | 0.122                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 2/3         | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | -0.06            | 0.137                  | 0.154                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 2/3         | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | 0.09             | 0.132                  | 0.153                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 2/3         | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | 0.05             | 0.078                  | 0.088                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 2/3         | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | -0.18            | 0.075                  | 0.087                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 2/3         | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | -0.17            | 0.209                  | 0.236                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 2/3         | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | -0.16            | 0.199                  | 0.231                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 2/3         | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | -0.13            | 0.113                  | 0.127                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 2/3         | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | 0.11             | 0.107                  | 0.124                  |
| 26       | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 2           | 136100 | 680.5       | 23.25               | 24.10               | 1.216                  | -0.05            | 0.948                  | 1.153                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 2           | 136100 | 680.5       | 23.20               | 24.10               | 1.230                  | 0.18             | 0.920                  | 1.132                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Cheek   | 0mm      | 2           | 136100 | 680.5       | 23.13               | 24.10               | 1.250                  | 0.13             | 0.914                  | 1.143                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 2           | 136100 | 680.5       | 23.25               | 24.10               | 1.216                  | -0.08            | 0.873                  | 1.061                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 2           | 136100 | 680.5       | 23.20               | 24.10               | 1.230                  | 0.15             | 0.851                  | 1.047                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Tilted  | 0mm      | 2           | 136100 | 680.5       | 23.13               | 24.10               | 1.250                  | 0.12             | 0.841                  | 1.051                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 2           | 136100 | 680.5       | 23.25               | 24.10               | 1.216                  | -0.11            | 0.610                  | 0.742                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 2           | 136100 | 680.5       | 23.20               | 24.10               | 1.230                  | -0.17            | 0.586                  | 0.721                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 2           | 136100 | 680.5       | 23.25               | 24.10               | 1.216                  | -0.08            | 0.623                  | 0.758                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 2           | 136100 | 680.5       | 23.20               | 24.10               | 1.230                  | -0.16            | 0.598                  | 0.736                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Cheek   | 0mm      | 3           | 136100 | 680.5       | 22.20               | 22.90               | 1.175                  | -0.07            | 0.755                  | 0.887                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Cheek   | 0mm      | 3           | 136100 | 680.5       | 22.10               | 22.90               | 1.202                  | -0.1             | 0.721                  | 0.867                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Cheek   | 0mm      | 3           | 136100 | 680.5       | 22.08               | 22.90               | 1.208                  | 0.15             | 0.715                  | 0.863                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Tilted  | 0mm      | 3           | 136100 | 680.5       | 22.20               | 22.90               | 1.175                  | 0.18             | 0.699                  | 0.821                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Tilted  | 0mm      | 3           | 136100 | 680.5       | 22.10               | 22.90               | 1.202                  | 0.16             | 0.673                  | 0.809                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 100     | 0         | Right Tilted  | 0mm      | 3           | 136100 | 680.5       | 22.08               | 22.90               | 1.208                  | -0.11            | 0.655                  | 0.791                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Cheek    | 0mm      | 3           | 136100 | 680.5       | 22.20               | 22.90               | 1.175                  | -0.01            | 0.488                  | 0.573                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Cheek    | 0mm      | 3           | 136100 | 680.5       | 22.10               | 22.90               | 1.202                  | 0.09             | 0.468                  | 0.562                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Tilted   | 0mm      | 3           | 136100 | 680.5       | 22.20               | 22.90               | 1.175                  | -0.06            | 0.499                  | 0.586                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Tilted   | 0mm      | 3           | 136100 | 680.5       | 22.10               | 22.90               | 1.202                  | -0.05            | 0.483                  | 0.581                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 518598 | 2592.99     | 24.94               | 25.40               | 1.112                  | -0.16            | 0.591                  | 0.657                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2/3         | 518598 | 2592.99     | 23.48               | 25.40               | 1.556                  | 0.12             | 0.439                  | 0.683                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 270     | 0         | Right Cheek   | 0mm      | 2/3         | 518598 | 2592.99     | 23.60               | 24.90               | 1.349                  | -0.09            | 0.421                  | 0.568                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 518598 | 2592.99     | 24.94               | 25.40               | 1.112                  | 0.01             | 0.139                  | 0.155                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2/3         | 518598 | 2592.99     | 23.48               | 25.40               | 1.556                  | 0.07             | 0.125                  | 0.194                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 518598 | 2592.99     | 24.94               | 25.40               | 1.112                  | -0.02            | 0.204                  | 0.227                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2/3         | 518598 | 2592.99     | 23.48               | 25.40               | 1.556                  | 0.04             | 0.147                  | 0.229                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 518598 | 2592.99     | 24.94               | 25.40               | 1.112                  | -0.04            | 0.167                  | 0.186                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2/3         | 518598 | 2592.99     | 23.48               | 25.40               | 1.556                  | 0.03             | 0.163                  | 0.254                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 518598 | 2592.99     | 24.39               | 25.40               | 1.262                  | 0.01             | 0.159                  | 0.201                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2/3         | 518598 | 2592.99     | 23.91               | 25.40               | 1.409                  | -0.04            | 0.126                  | 0.178                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 518598 | 2592.99     | 24.39               | 25.40               | 1.262                  | 0.04             | 0.095                  | 0.120                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2/3         | 518598 | 2592.99     | 23.91               | 25.40               | 1.409                  | 0.06             | 0.071                  | 0.100                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 518598 | 2592.99     | 24.39               | 25.40               | 1.262                  | -0.12            | 0.376                  | 0.474                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2/3         | 518598 | 2592.99     | 23.91               | 25.40               | 1.409                  | -0.07            | 0.330                  | 0.465                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 518598 | 2592.99     | 24.39               | 25.40               | 1.262                  | -0.09            | 0.091                  | 0.115                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2/3         | 518598 | 2592.99     | 23.91               | 25.40               | 1.409                  | -0.07            | 0.082                  | 0.116                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 518598 | 2592.99     | 18.23               | 19                  | 1.194                  | -0.08            | 0.840                  | 1.003                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2           | 518598 | 2592.99     | 17.88               | 19                  | 1.294                  | 0.01             | 0.569                  | 0.736                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 270     | 0         | Right Cheek   | 0mm      | 2           | 518598 | 2592.99     | 17.79               | 19                  | 1.321                  | 0                | 0.610                  | 0.806                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 518598 | 2592.99     | 18.23               | 19                  | 1.194                  | 0.05             | 0.780                  | 0.931                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2           | 518598 | 2592.99     | 17.88               | 19                  | 1.294                  | -0.03            | 0.550                  | 0.712                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 270     | 0         | Right Tilted  | 0mm      | 2           | 518598 | 2592.99     | 17.79               | 19                  | 1.321                  | 0.02             | 0.301                  | 0.398                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2           | 518598 | 2592.99     | 18.23               | 19                  | 1.194                  | -0.06            | 0.314                  | 0.375                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2           | 518598 | 2592.99     | 17.88               | 19                  | 1.294                  | -0.07            | 0.228                  | 0.295                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2           | 518598 | 2592.99     | 18.23               | 19                  | 1.194                  | 0.1              | 0.393                  | 0.469                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2           | 518598 | 2592.99     | 17.88               | 19                  | 1.294                  | 0.09             | 0.268                  | 0.347                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 518598 | 2592.99     | 17.32               | 17.8                | 1.117                  | 0.03             | 0.742                  | 0.829                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 3           | 518598 | 2592.99     | 16.85               | 17.8                | 1.245                  | 0.02             | 0.514                  | 0.640                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 270     | 0         | Right Cheek   | 0mm      | 3           | 518598 | 2592.99     | 16.83               | 17.8                | 1.250                  | 0                | 0.535                  | 0.669                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 518598 | 2592.99     | 17.32               | 17.8                | 1.117                  | 0.05             | 0.733                  | 0.819                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 3           | 518598 | 2592.99     | 16.85               | 17.8                | 1.245                  | -0.06            | 0.500                  | 0.622                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 270     | 0         | Right Tilted  | 0mm      | 3           | 518598 | 2592.99     | 16.83               | 17.8                | 1.250                  | 0.18             | 0.495                  | 0.619                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 3           | 518598 | 2592.99     | 17.32               | 17.8                | 1.117                  | -0.02            | 0.294                  | 0.328                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 3           | 518598 | 2592.99     | 16.85               | 17.8                | 1.245                  | 0.01             | 0.194                  | 0.241                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 3           | 518598 | 2592.99     | 17.32               | 17.8                | 1.117                  | 0.07             | 0.352                  | 0.393                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 3           | 518598 | 2592.99     | 16.85               | 17.8                | 1.245                  | -0.1             | 0.242                  | 0.301                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 518598 | 2592.99     | 21.38               | 21.8                | 1.102                  | 0.09             | 0.795                  | 0.876                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2           | 518598 | 2592.99     | 20.86               | 21.8                | 1.242                  | -0.01            | 0.756                  | 0.939                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 270     | 0         | Right Cheek   | 0mm      | 2           | 518598 | 2592.99     | 20.9                | 21.8                | 1.230                  | 0.09             | 0.840                  | 1.033                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 518598 | 2592.99     | 21.38               | 21.8                | 1.102                  | -0.02            | 0.110                  | 0.121                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2           | 518598 | 2592.99     | 20.86               | 21.8                | 1.242                  | 0.06             | 0.110                  | 0.137                  |
| 27       | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2           | 518598 | 2592.99     | 21.38               | 21.8                | 1.102                  | -0.15            | 1.060                  | 1.168                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2           | 518598 | 2592.99     | 20.86               | 21.8                | 1.242                  | 0.01             | 0.911                  | 1.131                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 270     | 0         | Left Cheek    | 0mm      | 2           | 518598 | 2592.99     | 20.9                | 21.8                | 1.230                  | -0.12            | 0.888                  | 1.092                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2           | 518598 | 2592.99     | 21.38               | 21.8                | 1.102                  | -0.11            | 0.201                  | 0.221                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2           | 518598 | 2592.99     | 20.86               | 21.8                | 1.242                  | -0.16            | 0.225                  | 0.279                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 518598 | 2592.99     | 20.36               | 20.6                | 1.057                  | -0.03            | 0.585                  | 0.618                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 3           | 518598 | 2592.99     | 19.85               | 20.6                | 1.189                  | -0.1             | 0.557                  | 0.662                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 270     | 0         | Right Cheek   | 0mm      | 3           | 518598 | 2592.99     | 19.83               | 20.6                | 1.194                  | 0.05             | 0.619                  | 0.739                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 518598 | 2592.99     | 20.36               | 20.6                | 1.057                  | 0.03             | 0.081                  | 0.086                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 3           | 518598 | 2592.99     | 19.85               | 20.6                | 1.189                  | 0.08             | 0.081                  | 0.096                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 3           | 518598 | 2592.99     | 20.36               | 20.6                | 1.057                  | -0.14            | 0.760                  | 0.803                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 3           | 518598 | 2592.99     | 19.85               | 20.6                | 1.189                  | -0.13            | 0.671                  | 0.797                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 270     | 0         | Left Cheek    | 0mm      | 3           | 518598 | 2592.99     | 19.83               | 20.6                | 1.194                  | -0.01            | 0.671                  | 0.801                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 3           | 518598 | 2592.99     | 20.36               | 20.6                | 1.057                  | -0.11            | 0.148                  | 0.156                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 3           | 518598 | 2592.99     | 19.85               | 20.6                | 1.189                  | -0.15            | 0.165                  | 0.196                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 641666 | 3624.99     | 25.39               | 25.40               | 1.002                  | 100          | 1.000                     | 0.01             | 0.174                  | 0.174                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Right Cheek   | 0mm      | 2/3         | 641666 | 3624.99     | 25.36               | 25.40               | 1.009                  | 100          | 1.000                     | 0.05             | 0.177                  | 0.179                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 641666 | 3624.99     | 25.39               | 25.40               | 1.002                  | 100          | 1.000                     | -0.02            | 0.114                  | 0.114                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Right Tilted  | 0mm      | 2/3         | 641666 | 3624.99     | 25.36               | 25.40               | 1.009                  | 100          | 1.000                     | 0                | 0.121                  | 0.122                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 641666 | 3624.99     | 25.39               | 25.40               | 1.002                  | 100          | 1.000                     | -0.16            | 0.390                  | 0.391                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Left Cheek    | 0mm      | 2/3         | 641666 | 3624.99     | 25.36               | 25.40               | 1.009                  | 100          | 1.000                     | 0.03             | 0.342                  | 0.345                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 641666 | 3624.99     | 25.39               | 25.40               | 1.002                  | 100          | 1.000                     | -0.04            | 0.125                  | 0.125                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Left Tilted   | 0mm      | 2/3         | 641666 | 3624.99     | 25.36               | 25.40               | 1.009                  | 100          | 1.000                     | 0.07             | 0.094                  | 0.095                  |
|          | FR1 n48_Ant 6 | 40M      | BPSK       | 50      | 25        | Left Cheek    | 0mm      | 2/3         | 641666 | 3624.99     | 25.35               | 25.40               | 1.012                  | 100          | 1.000                     | -0.11            | 0.380                  | 0.384                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 641666 | 3624.99     | 23.60               | 24.80               | 1.318                  | 100          | 1.000                     | -0.03            | 0.093                  | 0.123                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Right Cheek   | 0mm      | 2/3         | 646332 | 3694.98     | 23.50               | 24.80               | 1.349                  | 100          | 1.000                     | 0.02             | 0.086                  | 0.116                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 641666 | 3624.99     | 23.60               | 24.80               | 1.318                  | 100          | 1.000                     | 0                | 0.056                  | 0.074                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Right Tilted  | 0mm      | 2/3         | 646332 | 3694.98     | 23.50               | 24.80               | 1.349                  | 100          | 1.000                     | -0.01            | 0.050                  | 0.067                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 641666 | 3624.99     | 23.60               | 24.80               | 1.318                  | 100          | 1.000                     | 0.05             | 0.049                  | 0.065                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Left Cheek    | 0mm      | 2/3         | 646332 | 3694.98     | 23.50               | 24.80               | 1.349                  | 100          | 1.000                     | 0.03             | 0.045                  | 0.061                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 641666 | 3624.99     | 23.60               | 24.80               | 1.318                  | 100          | 1.000                     | 0.02             | 0.046                  | 0.061                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Left Tilted   | 0mm      | 2/3         | 646332 | 3694.98     | 23.50               | 24.80               | 1.349                  | 100          | 1.000                     | -0.04            | 0.040                  | 0.054                  |
|          | FR1 n48_Ant 7 | 40M      | BPSK       | 50      | 25        | Right Cheek   | 0mm      | 2/3         | 641666 | 3624.99     | 22.19               | 22.50               | 1.074                  | 100          | 1.000                     | -0.06            | 0.083                  | 0.089                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | -0.1             | 0.867                  | 0.953                  |
| 28       | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 637000 | 3555        | 19.69               | 20.50               | 1.205                  | 100          | 1.000                     | -0.02            | 0.956                  | 1.152                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 22        | Right Cheek   | 0mm      | 2           | 646332 | 3694.98     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | -0.02            | 0.829                  | 0.947                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Cheek   | 0mm      | 2           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | -0.09            | 0.810                  | 0.926                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Cheek   | 0mm      | 2           | 637000 | 3555        | 19.65               | 20.50               | 1.216                  | 100          | 1.000                     | -0.06            | 0.895                  | 1.088                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Cheek   | 0mm      | 2           | 646332 | 3694.98     | 19.87               | 20.50               | 1.156                  | 100          | 1.000                     | -0.05            | 0.744                  | 0.860                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 24      | 0         | Right Cheek   | 0mm      | 2           | 646332 | 3694.98     | 18.35               | 18.50               | 1.035                  | 100          | 1.000                     | -0.02            | 0.832                  | 0.861                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | -0.13            | 0.600                  | 0.659                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 637000 | 3555        | 19.69               | 20.50               | 1.205                  | 100          | 1.000                     | -0.18            | 0.699                  | 0.842                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 22        | Right Tilted  | 0mm      | 2           | 646332 | 3694.98     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | -0.05            | 0.591                  | 0.675                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Tilted  | 0mm      | 2           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | -0.15            | 0.570                  | 0.651                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Tilted  | 0mm      | 2           | 637000 | 3555        | 19.65               | 20.50               | 1.216                  | 100          | 1.000                     | -0.09            | 0.645                  | 0.784                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Tilted  | 0mm      | 2           | 646332 | 3694.98     | 19.87               | 20.50               | 1.156                  | 100          | 1.000                     | 0                | 0.528                  | 0.610                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 24      | 0         | Right Tilted  | 0mm      | 2           | 646332 | 3694.98     | 18.35               | 18.50               | 1.035                  | 100          | 1.000                     | -0.11            | 0.433                  | 0.448                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Left Cheek    | 0mm      | 2           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | -0.08            | 0.335                  | 0.368                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Left Cheek    | 0mm      | 2           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | -0.17            | 0.301                  | 0.344                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Left Tilted   | 0mm      | 2           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | -0.12            | 0.433                  | 0.476                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Left Tilted   | 0mm      | 2           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | -0.1             | 0.396                  | 0.453                  |
|          | FR1 n48_Ant 1 | 40M      | QPSK       | 53      | 26        | Right Cheek   | 0mm      | 2           | 641666 | 3624.99     | 19.87               | 20.00               | 1.030                  | 100          | 1.000                     | -0.12            | 0.949                  | 0.978                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 641666 | 3624.99     | 18.95               | 19.30               | 1.084                  | 100          | 1.000                     | -0.12            | 0.758                  | 0.822                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 637000 | 3555        | 18.94               | 19.30               | 1.086                  | 100          | 1.000                     | 0.05             | 0.836                  | 0.908                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 646332 | 3694.98     | 18.94               | 19.30               | 1.086                  | 100          | 1.000                     | -0.11            | 0.725                  | 0.788                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Cheek   | 0mm      | 3           | 641666 | 3624.99     | 18.90               | 19.30               | 1.096                  | 100          | 1.000                     | -0.08            | 0.708                  | 0.776                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Cheek   | 0mm      | 3           | 637000 | 3555        | 18.89               | 19.30               | 1.099                  | 100          | 1.000                     | -0.15            | 0.783                  | 0.861                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Cheek   | 0mm      | 3           | 646332 | 3694.98     | 18.88               | 19.30               | 1.102                  | 100          | 1.000                     | -0.18            | 0.651                  | 0.717                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 24      | 0         | Right Cheek   | 0mm      | 3           | 646332 | 3694.98     | 18.34               | 18.50               | 1.038                  | 100          | 1.000                     | -0.02            | 0.832                  | 0.863                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 641666 | 3624.99     | 18.95               | 19.30               | 1.084                  | 100          | 1.000                     | -0.16            | 0.524                  | 0.568                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 637000 | 3555        | 18.94               | 19.30               | 1.086                  | 100          | 1.000                     | -0.11            | 0.611                  | 0.664                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 22        | Right Tilted  | 0mm      | 3           | 646332 | 3694.98     | 18.94               | 19.30               | 1.086                  | 100          | 1.000                     | -0.03            | 0.517                  | 0.562                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Tilted  | 0mm      | 3           | 641666 | 3624.99     | 18.90               | 19.30               | 1.096                  | 100          | 1.000                     | -0.18            | 0.498                  | 0.546                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Tilted  | 0mm      | 3           | 637000 | 3555        | 18.89               | 19.30               | 1.099                  | 100          | 1.000                     | -0.03            | 0.564                  | 0.620                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Tilted  | 0mm      | 3           | 646332 | 3694.98     | 18.88               | 19.30               | 1.102                  | 100          | 1.000                     | -0.18            | 0.462                  | 0.509                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 24      | 0         | Right Tilted  | 0mm      | 3           | 646332 | 3694.98     | 18.34               | 18.50               | 1.038                  | 100          | 1.000                     | -0.11            | 0.433                  | 0.449                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Left Cheek    | 0mm      | 3           | 641666 | 3624.99     | 18.95               | 19.30               | 1.084                  | 100          | 1.000                     | -0.18            | 0.293                  | 0.318                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Left Cheek    | 0mm      | 3           | 641666 | 3624.99     | 18.90               | 19.30               | 1.096                  | 100          | 1.000                     | -0.13            | 0.264                  | 0.289                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Left Tilted   | 0mm      | 3           | 641666 | 3624.99     | 18.95               | 19.30               | 1.084                  | 100          | 1.000                     | -0.1             | 0.378                  | 0.410                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Left Tilted   | 0mm      | 3           | 641666 | 3624.99     | 18.90               | 19.30               | 1.096                  | 100          | 1.000                     | 0                | 0.346                  | 0.379                  |
|          | FR1 n48_Ant 1 | 40M      | QPSK       | 53      | 26        | Right Cheek   | 0mm      | 3           | 641666 | 3624.99     | 18.94               | 19.30               | 1.086                  | 100          | 1.000                     | -0.02            | 0.791                  | 0.859                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | -0.05            | 0.343                  | 0.363                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Right Cheek   | 0mm      | 2/3         | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | -0.14            | 0.372                  | 0.402                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | 0                | 0.084                  | 0.089                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Right Tilted  | 0mm      | 2/3         | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | -0.1             | 0.094                  | 0.101                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | -0.13            | 0.417                  | 0.441                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Left Cheek    | 0mm      | 2/3         | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | 0.07             | 0.496                  | 0.535                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | -0.18            | 0.179                  | 0.189                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Left Tilted   | 0mm      | 2/3         | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | -0.19            | 0.178                  | 0.192                  |
|          | FR1 n48_Ant 5 | 40M      | QPSK       | 53      | 26        | Left Cheek    | 0mm      | 2/3         | 641666 | 3624.99     | 19.17               | 19.20               | 1.007                  | 100          | 1.000                     | -0.13            | 0.491                  | 0.494                  |

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 656000 | 3840        | 23.70               | 24.10               | 1.096                  | 0.05             | 0.115                  | 0.126                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2/3         | 656000 | 3840        | 23.12               | 24.10               | 1.253                  | 0.03             | 0.103                  | 0.129                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 656000 | 3840        | 23.70               | 24.10               | 1.096                  | -0.02            | 0.102                  | 0.112                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2/3         | 656000 | 3840        | 23.12               | 24.10               | 1.253                  | 0.05             | 0.088                  | 0.110                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 656000 | 3840        | 23.70               | 24.10               | 1.096                  | 0.01             | 0.187                  | 0.205                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2/3         | 656000 | 3840        | 23.12               | 24.10               | 1.253                  | -0.04            | 0.155                  | 0.194                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 656000 | 3840        | 23.70               | 24.10               | 1.096                  | 0.02             | 0.073                  | 0.080                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2/3         | 656000 | 3840        | 23.12               | 24.10               | 1.253                  | 0.03             | 0.064                  | 0.080                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 633332 | 3499.98     | 23.27               | 24.10               | 1.211                  | 0.01             | 0.071                  | 0.086                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2/3         | 633332 | 3499.98     | 22.81               | 24.10               | 1.346                  | 0                | 0.065                  | 0.087                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 633332 | 3499.98     | 23.27               | 24.10               | 1.211                  | 0.05             | 0.082                  | 0.099                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2/3         | 633332 | 3499.98     | 22.81               | 24.10               | 1.346                  | -0.03            | 0.057                  | 0.077                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 633332 | 3499.98     | 23.27               | 24.10               | 1.211                  | -0.17            | 0.169                  | 0.205                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2/3         | 633332 | 3499.98     | 22.81               | 24.10               | 1.346                  | 0.02             | 0.142                  | 0.191                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 633332 | 3499.98     | 23.27               | 24.10               | 1.211                  | 0.01             | 0.060                  | 0.073                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2/3         | 633332 | 3499.98     | 22.81               | 24.10               | 1.346                  | -0.03            | 0.052                  | 0.070                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | -0.06            | 0.088                  | 0.103                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2/3         | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | 0.15             | 0.074                  | 0.099                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | -0.04            | 0.062                  | 0.073                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2/3         | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | 0.02             | 0.054                  | 0.072                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | -0.18            | 0.074                  | 0.087                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2/3         | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | 0.16             | 0.065                  | 0.087                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | -0.02            | 0.081                  | 0.095                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2/3         | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | 0.16             | 0.071                  | 0.095                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2/3         | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | -0.09            | 0.092                  | 0.130                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2/3         | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | 0.08             | 0.082                  | 0.124                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2/3         | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | -0.13            | 0.054                  | 0.076                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2/3         | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | 0                | 0.044                  | 0.066                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2/3         | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | -0.18            | 0.044                  | 0.062                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2/3         | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | 0.14             | 0.042                  | 0.063                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2/3         | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | 0.09             | 0.058                  | 0.082                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2/3         | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | 0.05             | 0.049                  | 0.074                  |

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 29       | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 656000 | 3840        | 19.85               | 20.70               | 1.216                  | -0.08            | 0.829                  | 1.008                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2           | 656000 | 3840        | 19.01               | 20.70               | 1.476                  | -0.17            | 0.776                  | 1.145                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 270     | 0         | Right Cheek   | 0mm      | 2           | 656000 | 3840        | 19.11               | 20.7                | 1.442                  | 0.05             | 0.774                  | 1.116                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 656000 | 3840        | 19.85               | 20.7                | 1.216                  | 0                | 0.525                  | 0.638                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2           | 656000 | 3840        | 19.01               | 20.7                | 1.476                  | 0.02             | 0.482                  | 0.711                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2           | 656000 | 3840        | 19.85               | 20.7                | 1.216                  | -0.03            | 0.372                  | 0.452                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2           | 656000 | 3840        | 19.01               | 20.7                | 1.476                  | 0.05             | 0.369                  | 0.545                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2           | 656000 | 3840        | 19.85               | 20.7                | 1.216                  | 0.04             | 0.386                  | 0.469                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2           | 656000 | 3840        | 19.01               | 20.7                | 1.476                  | -0.01            | 0.415                  | 0.612                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 656000 | 3840        | 18.88               | 19.5                | 1.153                  | 0.02             | 0.682                  | 0.787                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 3           | 656000 | 3840        | 18.05               | 19.5                | 1.396                  | -0.01            | 0.626                  | 0.874                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 270     | 0         | Right Cheek   | 0mm      | 3           | 656000 | 3840        | 18.12               | 19.5                | 1.374                  | 0.03             | 0.624                  | 0.857                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 656000 | 3840        | 18.88               | 19.5                | 1.153                  | -0.05            | 0.424                  | 0.489                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 3           | 656000 | 3840        | 18.05               | 19.5                | 1.396                  | -0.02            | 0.389                  | 0.543                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 3           | 656000 | 3840        | 18.88               | 19.5                | 1.153                  | 0.01             | 0.300                  | 0.346                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 3           | 656000 | 3840        | 18.05               | 19.5                | 1.396                  | 0.1              | 0.297                  | 0.415                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 3           | 656000 | 3840        | 18.88               | 19.5                | 1.153                  | 0.05             | 0.312                  | 0.360                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 3           | 656000 | 3840        | 18.05               | 19.5                | 1.396                  | -0.06            | 0.335                  | 0.468                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 633332 | 3499.98     | 19.76               | 20.7                | 1.242                  | -0.09            | 0.644                  | 0.800                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2           | 633332 | 3499.98     | 19.47               | 20.7                | 1.327                  | -0.03            | 0.626                  | 0.831                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 270     | 0         | Right Cheek   | 0mm      | 2           | 633332 | 3499.98     | 19.08               | 20.7                | 1.452                  | 0.01             | 0.568                  | 0.825                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 633332 | 3499.98     | 19.76               | 20.7                | 1.242                  | 0                | 0.533                  | 0.662                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2           | 633332 | 3499.98     | 19.47               | 20.7                | 1.327                  | 0.05             | 0.482                  | 0.640                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2           | 633332 | 3499.98     | 19.76               | 20.7                | 1.242                  | -0.02            | 0.305                  | 0.379                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2           | 633332 | 3499.98     | 19.47               | 20.7                | 1.327                  | -0.04            | 0.255                  | 0.338                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2           | 633332 | 3499.98     | 19.76               | 20.7                | 1.242                  | 0.03             | 0.409                  | 0.508                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2           | 633332 | 3499.98     | 19.47               | 20.7                | 1.327                  | 0.01             | 0.358                  | 0.475                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 633332 | 3499.98     | 18.74               | 19.5                | 1.191                  | 0.05             | 0.530                  | 0.631                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 3           | 633332 | 3499.98     | 18.38               | 19.5                | 1.294                  | -0.1             | 0.495                  | 0.641                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 633332 | 3499.98     | 18.74               | 19.5                | 1.191                  | 0.06             | 0.422                  | 0.503                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 3           | 633332 | 3499.98     | 18.38               | 19.5                | 1.294                  | -0.01            | 0.381                  | 0.493                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 3           | 633332 | 3499.98     | 18.74               | 19.5                | 1.191                  | -0.04            | 0.241                  | 0.287                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 3           | 633332 | 3499.98     | 18.38               | 19.5                | 1.294                  | 0.03             | 0.202                  | 0.261                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 3           | 633332 | 3499.98     | 18.74               | 19.5                | 1.191                  | 0.02             | 0.323                  | 0.385                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 3           | 633332 | 3499.98     | 18.38               | 19.5                | 1.294                  | 0.07             | 0.283                  | 0.366                  |

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 656000 | 3840        | 21.55               | 21.7                | 1.035                  | 0.05             | 0.486                  | 0.503                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2           | 656000 | 3840        | 21.16               | 21.7                | 1.132                  | 0                | 0.420                  | 0.476                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 656000 | 3840        | 21.55               | 21.7                | 1.035                  | 0.02             | 0.105                  | 0.109                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2           | 656000 | 3840        | 21.16               | 21.7                | 1.132                  | -0.03            | 0.075                  | 0.085                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2           | 656000 | 3840        | 21.55               | 21.7                | 1.035                  | -0.04            | 0.901                  | 0.933                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2           | 656000 | 3840        | 21.16               | 21.7                | 1.132                  | -0.04            | 0.734                  | 0.831                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 270     | 0         | Left Cheek    | 0mm      | 2           | 656000 | 3840        | 21.17               | 21.7                | 1.130                  | -0.02            | 0.848                  | 0.958                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2           | 656000 | 3840        | 21.55               | 21.7                | 1.035                  | 0.1              | 0.235                  | 0.243                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2           | 656000 | 3840        | 21.16               | 21.7                | 1.132                  | 0.04             | 0.174                  | 0.197                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 656000 | 3840        | 20.5                | 20.5                | 1.000                  | 0.05             | 0.333                  | 0.333                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 3           | 656000 | 3840        | 20.2                | 20.5                | 1.072                  | 0.02             | 0.288                  | 0.309                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 656000 | 3840        | 20.5                | 20.5                | 1.000                  | -0.01            | 0.072                  | 0.072                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 3           | 656000 | 3840        | 20.2                | 20.5                | 1.072                  | 0.03             | 0.052                  | 0.056                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 3           | 656000 | 3840        | 20.5                | 20.5                | 1.000                  | -0.02            | 0.618                  | 0.618                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 3           | 656000 | 3840        | 20.2                | 20.5                | 1.072                  | -0.04            | 0.538                  | 0.576                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 3           | 656000 | 3840        | 20.5                | 20.5                | 1.000                  | 0.06             | 0.161                  | 0.161                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 3           | 656000 | 3840        | 20.2                | 20.5                | 1.072                  | -0.1             | 0.120                  | 0.129                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 2           | 633332 | 3499.98     | 21.39               | 21.7                | 1.074                  | 0.01             | 0.688                  | 0.739                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 2           | 633332 | 3499.98     | 20.95               | 21.7                | 1.189                  | 0.02             | 0.519                  | 0.617                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 2           | 633332 | 3499.98     | 21.39               | 21.7                | 1.074                  | 0                | 0.251                  | 0.270                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 2           | 633332 | 3499.98     | 20.95               | 21.7                | 1.189                  | 0.04             | 0.160                  | 0.190                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 2           | 633332 | 3499.98     | 21.39               | 21.7                | 1.074                  | 0.16             | 1.030                  | 1.106                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 2           | 633332 | 3499.98     | 20.95               | 21.7                | 1.189                  | -0.07            | 0.795                  | 0.945                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 270     | 0         | Left Cheek    | 0mm      | 2           | 633332 | 3499.98     | 20.81               | 21.7                | 1.227                  | 0.08             | 0.725                  | 0.890                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 2           | 633332 | 3499.98     | 21.39               | 21.7                | 1.074                  | -0.1             | 0.460                  | 0.494                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 2           | 633332 | 3499.98     | 20.95               | 21.7                | 1.189                  | -0.09            | 0.321                  | 0.382                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Cheek   | 0mm      | 3           | 633332 | 3499.98     | 20.43               | 20.5                | 1.016                  | 0.05             | 0.511                  | 0.519                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Cheek   | 0mm      | 3           | 633332 | 3499.98     | 19.95               | 20.5                | 1.135                  | 0.02             | 0.385                  | 0.437                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Tilted  | 0mm      | 3           | 633332 | 3499.98     | 20.43               | 20.5                | 1.016                  | -0.02            | 0.186                  | 0.189                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Tilted  | 0mm      | 3           | 633332 | 3499.98     | 19.95               | 20.5                | 1.135                  | 0.01             | 0.119                  | 0.135                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Cheek    | 0mm      | 3           | 633332 | 3499.98     | 20.43               | 20.5                | 1.016                  | 0.11             | 0.764                  | 0.776                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Cheek    | 0mm      | 3           | 633332 | 3499.98     | 19.95               | 20.5                | 1.135                  | 0.04             | 0.590                  | 0.670                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Tilted   | 0mm      | 3           | 633332 | 3499.98     | 20.43               | 20.5                | 1.016                  | -0.07            | 0.341                  | 0.347                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Tilted   | 0mm      | 3           | 633332 | 3499.98     | 19.95               | 20.5                | 1.135                  | 0.08             | 0.238                  | 0.270                  |



## &lt;WLAN SAR&gt;

| Plot No. | Band       | Mode          | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 4      | 1           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | -0.03            | 0.381                  | 0.399                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 4      | 1           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | -0.04            | 0.450                  | 0.471                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4      | 1           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | -0.03            | 1.030                  | 1.078                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4      | 1           | 1   | 2412        | 17.25               | 17.50               | 1.059                  | 98.9         | 1.011                     | -0.07            | 0.859                  | 0.920                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4      | 1           | 11  | 2462        | 17.25               | 17.50               | 1.059                  | 98.9         | 1.011                     | -0.07            | 0.829                  | 0.888                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4      | 1           | 12  | 2467        | 17.15               | 17.50               | 1.084                  | 98.9         | 1.011                     | 0                | 0.923                  | 1.011                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4      | 1           | 13  | 2472        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | 0.09             | 0.896                  | 0.938                  |
| 30       | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4      | 1           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | 0.01             | 1.100                  | 1.151                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4      | 1           | 1   | 2412        | 17.25               | 17.50               | 1.059                  | 98.9         | 1.011                     | 0.02             | 0.943                  | 1.010                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4      | 1           | 11  | 2462        | 17.25               | 17.50               | 1.059                  | 98.9         | 1.011                     | -0.11            | 0.910                  | 0.975                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4      | 1           | 12  | 2467        | 17.15               | 17.50               | 1.084                  | 98.9         | 1.011                     | -0.07            | 0.960                  | 1.052                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4      | 1           | 13  | 2472        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | 0.12             | 1.010                  | 1.057                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 3      | 1           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.17            | 0.339                  | 0.347                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 3      | 1           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.02            | 0.087                  | 0.089                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 3      | 1           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.17            | 0.445                  | 0.455                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 3      | 1           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | 0.1              | 0.077                  | 0.079                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 3      | 1           | 1   | 2412        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.11            | 0.531                  | 0.543                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 3      | 1           | 6   | 2437        | 17.15               | 17.50               | 1.084                  | 98.9         | 1.011                     | -0.18            | 0.592                  | 0.649                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 3      | 1           | 12  | 2467        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.19            | 0.593                  | 0.606                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 3      | 1           | 13  | 2472        | 17.25               | 17.50               | 1.059                  | 98.9         | 1.011                     | -0.16            | 0.554                  | 0.593                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Right Cheek   | 0mm      | Ant 4+3(4) | 1           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | -0.06            | 0.319                  | 0.346                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Right Cheek   | 0mm      | Ant 4+3(3) | 1           | 11  | 2462        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.06            | 0.351                  | 0.407                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Right Tilted  | 0mm      | Ant 4+3(4) | 1           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | -0.02            | 0.437                  | 0.473                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Right Tilted  | 0mm      | Ant 4+3(3) | 1           | 11  | 2462        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.02            | 0.050                  | 0.058                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek    | 0mm      | Ant 4+3(4) | 1           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | -0.07            | 0.890                  | 0.964                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek    | 0mm      | Ant 4+3(3) | 1           | 11  | 2462        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.07            | 0.381                  | 0.442                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek    | 0mm      | Ant 4+3(4) | 1           | 1   | 2412        | 17.35               | 17.50               | 1.035                  | 93.4         | 1.071                     | -0.05            | 0.756                  | 0.838                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek    | 0mm      | Ant 4+3(3) | 1           | 1   | 2412        | 17.05               | 17.50               | 1.109                  | 93.4         | 1.071                     | -0.05            | 0.496                  | 0.589                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek    | 0mm      | Ant 4+3(4) | 1           | 6   | 2437        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | -0.03            | 0.810                  | 0.878                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek    | 0mm      | Ant 4+3(3) | 1           | 6   | 2437        | 16.45               | 17.50               | 1.274                  | 93.4         | 1.071                     | -0.03            | 0.437                  | 0.596                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek    | 0mm      | Ant 4+3(4) | 1           | 12  | 2467        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.06            | 0.800                  | 0.929                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek    | 0mm      | Ant 4+3(3) | 1           | 12  | 2467        | 17.05               | 17.50               | 1.109                  | 93.4         | 1.071                     | -0.06            | 0.484                  | 0.575                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(4) | 1           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | -0.02            | 0.917                  | 0.993                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(3) | 1           | 11  | 2462        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.02            | 0.042                  | 0.049                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(3) | 1           | 11  | 2462        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.04            | 0.036                  | 0.042                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(4) | 1           | 1   | 2412        | 17.35               | 17.50               | 1.035                  | 93.4         | 1.071                     | 0                | 0.894                  | 0.991                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(3) | 1           | 1   | 2412        | 17.05               | 17.50               | 1.109                  | 93.4         | 1.071                     | 0                | 0.040                  | 0.048                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(4) | 1           | 6   | 2437        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | 0.01             | 0.990                  | 1.073                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(3) | 1           | 6   | 2437        | 16.45               | 17.50               | 1.274                  | 93.4         | 1.071                     | 0.01             | 0.038                  | 0.052                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(4) | 1           | 12  | 2467        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | 0                | 0.896                  | 1.040                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted   | 0mm      | Ant 4+3(3) | 1           | 12  | 2467        | 17.05               | 17.50               | 1.109                  | 93.4         | 1.071                     | 0                | 0.039                  | 0.046                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 4      | 2           | 6   | 2437        | 15.45               | 15.50               | 1.012                  | 98.9         | 1.011                     | 0.04             | 0.244                  | 0.250                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 4      | 2           | 6   | 2437        | 15.45               | 15.50               | 1.012                  | 98.9         | 1.011                     | 0.09             | 0.269                  | 0.275                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4      | 2           | 6   | 2437        | 15.45               | 15.50               | 1.012                  | 98.9         | 1.011                     | -0.01            | 0.592                  | 0.605                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4      | 2           | 6   | 2437        | 15.45               | 15.50               | 1.012                  | 98.9         | 1.011                     | -0.13            | 0.687                  | 0.703                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 3      | 2           | 11  | 2462        | 15.45               | 15.50               | 1.012                  | 98.9         | 1.011                     | -0.1             | 0.181                  | 0.185                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 3      | 2           | 11  | 2462        | 15.45               | 15.50               | 1.012                  | 98.9         | 1.011                     | -0.07            | 0.057                  | 0.058                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 3      | 2           | 11  | 2462        | 15.45               | 15.50               | 1.012                  | 98.9         | 1.011                     | -0.18            | 0.276                  | 0.282                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 3      | 2           | 11  | 2462        | 15.45               | 15.50               | 1.012                  | 98.9         | 1.011                     | -0.04            | 0.030                  | 0.031                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

|  |            |               |              |     |            |   |    |      |       |       |       |      |       |       |       |       |
|--|------------|---------------|--------------|-----|------------|---|----|------|-------|-------|-------|------|-------|-------|-------|-------|
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Cheek  | 0mm | Ant 4+3(4) | 2 | 11 | 2462 | 15.45 | 15.50 | 1.012 | 93.4 | 1.071 | -0.11 | 0.184 | 0.199 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Cheek  | 0mm | Ant 4+3(3) | 2 | 11 | 2462 | 15.25 | 15.50 | 1.059 | 93.4 | 1.071 | -0.11 | 0.184 | 0.209 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Tilted | 0mm | Ant 4+3(4) | 2 | 11 | 2462 | 15.45 | 15.50 | 1.012 | 93.4 | 1.071 | -0.07 | 0.274 | 0.297 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Tilted | 0mm | Ant 4+3(3) | 2 | 11 | 2462 | 15.25 | 15.50 | 1.059 | 93.4 | 1.071 | -0.07 | 0.274 | 0.311 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek   | 0mm | Ant 4+3(4) | 2 | 11 | 2462 | 15.45 | 15.50 | 1.012 | 93.4 | 1.071 | -0.14 | 0.537 | 0.582 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek   | 0mm | Ant 4+3(3) | 2 | 11 | 2462 | 15.25 | 15.50 | 1.059 | 93.4 | 1.071 | -0.14 | 0.302 | 0.343 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted  | 0mm | Ant 4+3(4) | 2 | 11 | 2462 | 15.45 | 15.50 | 1.012 | 93.4 | 1.071 | 0.01  | 0.610 | 0.661 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted  | 0mm | Ant 4+3(3) | 2 | 11 | 2462 | 15.25 | 15.50 | 1.059 | 93.4 | 1.071 | 0.01  | 0.025 | 0.028 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek  | 0mm | Ant 4      | 3 | 1  | 2412 | 14.45 | 14.50 | 1.012 | 98.9 | 1.011 | -0.02 | 0.165 | 0.169 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted | 0mm | Ant 4      | 3 | 1  | 2412 | 14.45 | 14.50 | 1.012 | 98.9 | 1.011 | 0.08  | 0.211 | 0.216 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek   | 0mm | Ant 4      | 3 | 1  | 2412 | 14.45 | 14.50 | 1.012 | 98.9 | 1.011 | -0.07 | 0.422 | 0.432 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted  | 0mm | Ant 4      | 3 | 1  | 2412 | 14.45 | 14.50 | 1.012 | 98.9 | 1.011 | -0.1  | 0.499 | 0.510 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek  | 0mm | Ant 3      | 3 | 11 | 2462 | 14.45 | 14.50 | 1.012 | 98.9 | 1.011 | -0.08 | 0.193 | 0.197 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted | 0mm | Ant 3      | 3 | 11 | 2462 | 14.45 | 14.50 | 1.012 | 98.9 | 1.011 | -0.16 | 0.020 | 0.020 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek   | 0mm | Ant 3      | 3 | 11 | 2462 | 14.45 | 14.50 | 1.012 | 98.9 | 1.011 | -0.14 | 0.207 | 0.212 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted  | 0mm | Ant 3      | 3 | 11 | 2462 | 14.45 | 14.50 | 1.012 | 98.9 | 1.011 | 0.15  | 0.019 | 0.019 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Cheek  | 0mm | Ant 4+3(4) | 3 | 11 | 2462 | 14.45 | 14.50 | 1.012 | 93.4 | 1.071 | -0.1  | 0.142 | 0.154 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Cheek  | 0mm | Ant 4+3(3) | 3 | 11 | 2462 | 14.15 | 14.50 | 1.084 | 93.4 | 1.071 | -0.1  | 0.229 | 0.266 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Tilted | 0mm | Ant 4+3(4) | 3 | 11 | 2462 | 14.45 | 14.50 | 1.012 | 93.4 | 1.071 | 0.02  | 0.231 | 0.250 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Tilted | 0mm | Ant 4+3(3) | 3 | 11 | 2462 | 14.15 | 14.50 | 1.084 | 93.4 | 1.071 | 0.02  | 0.015 | 0.017 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek   | 0mm | Ant 4+3(4) | 3 | 11 | 2462 | 14.45 | 14.50 | 1.012 | 93.4 | 1.071 | -0.05 | 0.485 | 0.525 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek   | 0mm | Ant 4+3(3) | 3 | 11 | 2462 | 14.15 | 14.50 | 1.084 | 93.4 | 1.071 | -0.05 | 0.204 | 0.237 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted  | 0mm | Ant 4+3(4) | 3 | 11 | 2462 | 14.45 | 14.50 | 1.012 | 93.4 | 1.071 | -0.1  | 0.430 | 0.466 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted  | 0mm | Ant 4+3(3) | 3 | 11 | 2462 | 14.15 | 14.50 | 1.084 | 93.4 | 1.071 | -0.1  | 0.044 | 0.051 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek  | 0mm | Ant 4      | 4 | 6  | 2437 | 10.95 | 11.00 | 1.012 | 98.9 | 1.011 | 0.1   | 0.067 | 0.069 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted | 0mm | Ant 4      | 4 | 6  | 2437 | 10.95 | 11.00 | 1.012 | 98.9 | 1.011 | -0.15 | 0.108 | 0.110 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek   | 0mm | Ant 4      | 4 | 6  | 2437 | 10.95 | 11.00 | 1.012 | 98.9 | 1.011 | 0     | 0.194 | 0.198 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted  | 0mm | Ant 4      | 4 | 6  | 2437 | 10.95 | 11.00 | 1.012 | 98.9 | 1.011 | 0.02  | 0.219 | 0.224 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek  | 0mm | Ant 3      | 4 | 11 | 2462 | 10.95 | 11.00 | 1.012 | 98.9 | 1.011 | -0.16 | 0.070 | 0.072 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted | 0mm | Ant 3      | 4 | 11 | 2462 | 10.95 | 11.00 | 1.012 | 98.9 | 1.011 | 0.09  | 0.021 | 0.021 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek   | 0mm | Ant 3      | 4 | 11 | 2462 | 10.95 | 11.00 | 1.012 | 98.9 | 1.011 | 0.01  | 0.080 | 0.082 |
|  | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted  | 0mm | Ant 3      | 4 | 11 | 2462 | 10.95 | 11.00 | 1.012 | 98.9 | 1.011 | -0.02 | 0.012 | 0.012 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Cheek  | 0mm | Ant 4+3(4) | 4 | 11 | 2462 | 10.95 | 11.00 | 1.012 | 93.4 | 1.071 | 0.16  | 0.066 | 0.072 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Cheek  | 0mm | Ant 4+3(3) | 4 | 11 | 2462 | 10.75 | 11.00 | 1.059 | 93.4 | 1.071 | 0.16  | 0.055 | 0.062 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Tilted | 0mm | Ant 4+3(4) | 4 | 11 | 2462 | 10.95 | 11.00 | 1.012 | 93.4 | 1.071 | -0.11 | 0.089 | 0.096 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Right Tilted | 0mm | Ant 4+3(3) | 4 | 11 | 2462 | 10.75 | 11.00 | 1.059 | 93.4 | 1.071 | -0.11 | 0.012 | 0.014 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek   | 0mm | Ant 4+3(4) | 4 | 11 | 2462 | 10.95 | 11.00 | 1.012 | 93.4 | 1.071 | -0.1  | 0.183 | 0.198 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Cheek   | 0mm | Ant 4+3(3) | 4 | 11 | 2462 | 10.75 | 11.00 | 1.059 | 93.4 | 1.071 | -0.1  | 0.073 | 0.083 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted  | 0mm | Ant 4+3(4) | 4 | 11 | 2462 | 10.95 | 11.00 | 1.012 | 93.4 | 1.071 | 0.15  | 0.203 | 0.220 |
|  | WLAN2.4GHz | 802.11g 6Mbps | Left Tilted  | 0mm | Ant 4+3(3) | 4 | 11 | 2462 | 10.75 | 11.00 | 1.059 | 93.4 | 1.071 | 0.15  | 0.007 | 0.008 |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band     | Mode                 | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|----------------------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 31       | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 50  | 5250        | 13.40               | 13.50               | 1.023                  | 86.84        | 1.152                     | 0.09             | 0.023                  | 0.027                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 50  | 5250        | 13.10               | 13.50               | 1.096                  | 86.84        | 1.152                     | 0.09             | 0.923                  | 1.166                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 58  | 5290        | 13.40               | 13.50               | 1.023                  | 87.95        | 1.137                     | -0.07            | 0.022                  | 0.026                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 58  | 5290        | 13.20               | 13.50               | 1.072                  | 87.95        | 1.137                     | -0.07            | 0.962                  | 1.172                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 1/2         | 50  | 5250        | 13.40               | 13.50               | 1.023                  | 86.84        | 1.152                     | 0.1              | 0.018                  | 0.021                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 1/2         | 50  | 5250        | 13.10               | 13.50               | 1.096                  | 86.84        | 1.152                     | 0.1              | 0.111                  | 0.140                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 1/2         | 50  | 5250        | 13.40               | 13.50               | 1.023                  | 86.84        | 1.152                     | 0.11             | 0.182                  | 0.215                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 1/2         | 50  | 5250        | 13.10               | 13.50               | 1.096                  | 86.84        | 1.152                     | 0.11             | 0.155                  | 0.196                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 1/2         | 50  | 5250        | 13.40               | 13.50               | 1.023                  | 86.84        | 1.152                     | -0.07            | 0.072                  | 0.085                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 1/2         | 50  | 5250        | 13.10               | 13.50               | 1.096                  | 86.84        | 1.152                     | -0.07            | 0.040                  | 0.051                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 3/4         | 50  | 5250        | 9.80                | 10.00               | 1.047                  | 86.84        | 1.152                     | 0.11             | 0.001                  | 0.001                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 3/4         | 50  | 5250        | 9.50                | 10.00               | 1.122                  | 86.84        | 1.152                     | 0.11             | 0.316                  | 0.408                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 3/4         | 50  | 5250        | 9.80                | 10.00               | 1.047                  | 86.84        | 1.152                     | 0.08             | 0.004                  | 0.004                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 3/4         | 50  | 5250        | 9.50                | 10.00               | 1.122                  | 86.84        | 1.152                     | 0.08             | 0.055                  | 0.071                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 3/4         | 50  | 5250        | 9.80                | 10.00               | 1.047                  | 86.84        | 1.152                     | 0.13             | 0.062                  | 0.075                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 3/4         | 50  | 5250        | 9.50                | 10.00               | 1.122                  | 86.84        | 1.152                     | 0.13             | 0.050                  | 0.065                  |
| 32       | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 3/4         | 50  | 5250        | 9.80                | 10.00               | 1.047                  | 86.84        | 1.152                     | -0.04            | 0.018                  | 0.022                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 3/4         | 50  | 5250        | 9.50                | 10.00               | 1.122                  | 86.84        | 1.152                     | -0.04            | 0.019                  | 0.025                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 114 | 5570        | 14.90               | 15.00               | 1.023                  | 86.84        | 1.152                     | 0.03             | 0.074                  | 0.087                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 114 | 5570        | 14.50               | 15.00               | 1.122                  | 86.84        | 1.152                     | 0.03             | 0.813                  | 1.051                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 106 | 5530        | 14.80               | 15.00               | 1.047                  | 87.95        | 1.137                     | 0.06             | 0.072                  | 0.086                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 106 | 5530        | 14.50               | 15.00               | 1.122                  | 87.95        | 1.137                     | 0.06             | 0.854                  | 1.089                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 1/2         | 114 | 5570        | 14.90               | 15.00               | 1.023                  | 86.84        | 1.152                     | -0.17            | 0.031                  | 0.037                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 1/2         | 114 | 5570        | 14.50               | 15.00               | 1.122                  | 86.84        | 1.152                     | -0.17            | 0.220                  | 0.284                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 1/2         | 114 | 5570        | 14.90               | 15.00               | 1.023                  | 86.84        | 1.152                     | -0.09            | 0.396                  | 0.467                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 1/2         | 114 | 5570        | 14.50               | 15.00               | 1.122                  | 86.84        | 1.152                     | -0.09            | 0.236                  | 0.305                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 1/2         | 114 | 5570        | 14.90               | 15.00               | 1.023                  | 86.84        | 1.152                     | -0.08            | 0.170                  | 0.200                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 1/2         | 114 | 5570        | 14.50               | 15.00               | 1.122                  | 86.84        | 1.152                     | -0.08            | 0.092                  | 0.119                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 3           | 114 | 5570        | 10.50               | 11.00               | 1.122                  | 86.84        | 1.152                     | -0.13            | 0.044                  | 0.057                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 3           | 114 | 5570        | 10.00               | 11.00               | 1.259                  | 86.84        | 1.152                     | -0.13            | 0.257                  | 0.373                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 3           | 114 | 5570        | 10.50               | 11.00               | 1.122                  | 86.84        | 1.152                     | -0.16            | 0.004                  | 0.005                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 3           | 114 | 5570        | 10.00               | 11.00               | 1.259                  | 86.84        | 1.152                     | -0.16            | 0.032                  | 0.046                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 3           | 114 | 5570        | 10.50               | 11.00               | 1.122                  | 86.84        | 1.152                     | 0.01             | 0.090                  | 0.116                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 3           | 114 | 5570        | 10.00               | 11.00               | 1.259                  | 86.84        | 1.152                     | 0.01             | 0.049                  | 0.071                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 3           | 114 | 5570        | 10.50               | 11.00               | 1.122                  | 86.84        | 1.152                     | -0.08            | 0.024                  | 0.031                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 3           | 114 | 5570        | 10.00               | 11.00               | 1.259                  | 86.84        | 1.152                     | -0.08            | 0.015                  | 0.022                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 4           | 114 | 5570        | 11.20               | 11.50               | 1.072                  | 86.84        | 1.152                     | 0.01             | 0.031                  | 0.038                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 4           | 114 | 5570        | 10.50               | 11.50               | 1.259                  | 86.84        | 1.152                     | 0.01             | 0.356                  | 0.516                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 4           | 114 | 5570        | 11.20               | 11.50               | 1.072                  | 86.84        | 1.152                     | -0.03            | 0.009                  | 0.011                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 4           | 114 | 5570        | 10.50               | 11.50               | 1.259                  | 86.84        | 1.152                     | -0.03            | 0.047                  | 0.068                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 4           | 114 | 5570        | 11.20               | 11.50               | 1.072                  | 86.84        | 1.152                     | -0.12            | 0.064                  | 0.079                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 4           | 114 | 5570        | 10.50               | 11.50               | 1.259                  | 86.84        | 1.152                     | -0.12            | 0.052                  | 0.075                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 4           | 114 | 5570        | 11.20               | 11.50               | 1.072                  | 86.84        | 1.152                     | 0.15             | 0.045                  | 0.056                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 4           | 114 | 5570        | 10.50               | 11.50               | 1.259                  | 86.84        | 1.152                     | 0.15             | 0.033                  | 0.048                  |



| Plot No. | Band     | Mode                 | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|----------------------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 33       | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 155 | 5775        | 15.70               | 16.00               | 1.072                  | 87.95        | 1.137                     | 0.12             | 0.200                  | 0.244                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 155 | 5775        | 15.20               | 16.00               | 1.202                  | 87.95        | 1.137                     | 0.12             | 0.612                  | 0.837                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 151 | 5755        | 15.90               | 16.00               | 1.023                  | 96.79        | 1.033                     | 0.15             | 0.113                  | 0.119                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 151 | 5755        | 15.30               | 16.00               | 1.175                  | 96.79        | 1.033                     | 0.15             | 0.860                  | 1.044                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 4+3(4) | 1/2         | 155 | 5775        | 15.70               | 16.00               | 1.072                  | 87.95        | 1.137                     | 0.02             | 0.135                  | 0.164                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 4+3(3) | 1/2         | 155 | 5775        | 15.20               | 16.00               | 1.202                  | 87.95        | 1.137                     | 0.02             | 0.189                  | 0.258                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 4+3(4) | 1/2         | 155 | 5775        | 15.70               | 16.00               | 1.072                  | 87.95        | 1.137                     | -0.1             | 0.760                  | 0.926                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 4+3(3) | 1/2         | 155 | 5775        | 15.20               | 16.00               | 1.202                  | 87.95        | 1.137                     | -0.1             | 0.216                  | 0.295                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Left Cheek    | 0mm      | Ant 4+3(4) | 1/2         | 151 | 5755        | 15.90               | 16.00               | 1.023                  | 96.79        | 1.033                     | 0.13             | 0.903                  | 0.955                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Left Cheek    | 0mm      | Ant 4+3(3) | 1/2         | 151 | 5755        | 15.30               | 16.00               | 1.175                  | 96.79        | 1.033                     | 0.13             | 0.236                  | 0.286                  |
| 34       | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 4+3(4) | 1/2         | 155 | 5775        | 15.70               | 16.00               | 1.072                  | 87.95        | 1.137                     | -0.02            | 0.407                  | 0.496                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 4+3(3) | 1/2         | 155 | 5775        | 15.20               | 16.00               | 1.202                  | 87.95        | 1.137                     | -0.02            | 0.161                  | 0.220                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(4) | 3/4         | 155 | 5775        | 11.80               | 12.00               | 1.047                  | 87.95        | 1.137                     | 0.11             | 0.042                  | 0.050                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(3) | 3/4         | 155 | 5775        | 11.50               | 12.00               | 1.122                  | 87.95        | 1.137                     | 0.11             | 0.368                  | 0.469                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 4+3(4) | 3/4         | 155 | 5775        | 11.80               | 12.00               | 1.047                  | 87.95        | 1.137                     | -0.18            | 0.048                  | 0.057                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 4+3(3) | 3/4         | 155 | 5775        | 11.50               | 12.00               | 1.122                  | 87.95        | 1.137                     | -0.18            | 0.084                  | 0.107                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 4+3(4) | 3/4         | 155 | 5775        | 11.80               | 12.00               | 1.047                  | 87.95        | 1.137                     | 0.08             | 0.260                  | 0.310                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 4+3(3) | 3/4         | 155 | 5775        | 11.50               | 12.00               | 1.122                  | 87.95        | 1.137                     | 0.08             | 0.049                  | 0.063                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 4+3(4) | 3/4         | 155 | 5775        | 11.80               | 12.00               | 1.047                  | 87.95        | 1.137                     | 0.12             | 0.092                  | 0.110                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 4+3(3) | 3/4         | 155 | 5775        | 11.50               | 12.00               | 1.122                  | 87.95        | 1.137                     | 0.12             | 0.053                  | 0.068                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 163 | 5815        | 16.30               | 16.50               | 1.047                  | 87.01        | 1.149                     | 0.1              | 0.122                  | 0.147                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 163 | 5815        | 16.20               | 16.50               | 1.072                  | 87.01        | 1.149                     | 0.1              | 0.950                  | 1.170                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 171 | 5855        | 16.20               | 16.50               | 1.072                  | 88.1         | 1.135                     | 0.1              | 0.129                  | 0.157                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 171 | 5855        | 15.60               | 16.50               | 1.230                  | 88.1         | 1.135                     | 0.1              | 0.715                  | 0.998                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 1/2         | 163 | 5815        | 16.30               | 16.50               | 1.047                  | 87.01        | 1.149                     | 0.05             | 0.095                  | 0.114                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 1/2         | 163 | 5815        | 16.20               | 16.50               | 1.072                  | 87.01        | 1.149                     | 0.05             | 0.256                  | 0.315                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 1/2         | 163 | 5815        | 16.30               | 16.50               | 1.047                  | 87.01        | 1.149                     | 0.16             | 0.755                  | 0.908                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 1/2         | 163 | 5815        | 16.20               | 16.50               | 1.072                  | 87.01        | 1.149                     | 0.16             | 0.189                  | 0.233                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 4+3(4) | 1/2         | 171 | 5855        | 16.20               | 16.50               | 1.072                  | 88.1         | 1.135                     | -0.01            | 0.414                  | 0.503                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 4+3(3) | 1/2         | 171 | 5855        | 15.60               | 16.50               | 1.230                  | 88.1         | 1.135                     | -0.01            | 0.255                  | 0.356                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 1/2         | 163 | 5815        | 16.30               | 16.50               | 1.047                  | 87.01        | 1.149                     | -0.05            | 0.175                  | 0.211                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 1/2         | 163 | 5815        | 16.20               | 16.50               | 1.072                  | 87.01        | 1.149                     | -0.05            | 0.118                  | 0.145                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 3/4         | 163 | 5815        | 12.00               | 12.50               | 1.122                  | 87.01        | 1.149                     | -0.03            | 0.051                  | 0.066                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 3/4         | 163 | 5815        | 11.50               | 12.50               | 1.259                  | 87.01        | 1.149                     | -0.03            | 0.311                  | 0.450                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 3/4         | 163 | 5815        | 12.00               | 12.50               | 1.122                  | 87.01        | 1.149                     | 0.01             | 0.051                  | 0.066                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 3/4         | 163 | 5815        | 11.50               | 12.50               | 1.259                  | 87.01        | 1.149                     | 0.01             | 0.005                  | 0.007                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 3/4         | 163 | 5815        | 12.00               | 12.50               | 1.122                  | 87.01        | 1.149                     | 0.01             | 0.151                  | 0.195                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 3/4         | 163 | 5815        | 11.50               | 12.50               | 1.259                  | 87.01        | 1.149                     | 0.01             | 0.085                  | 0.123                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 3/4         | 163 | 5815        | 12.00               | 12.50               | 1.122                  | 87.01        | 1.149                     | 0.19             | 0.063                  | 0.081                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 3/4         | 163 | 5815        | 11.50               | 12.50               | 1.259                  | 87.01        | 1.149                     | 0.19             | 0.038                  | 0.055                  |

**<6GHz WLAN SAR>**

| Plot No. | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Measured APD (W/m^2) |
|----------|----------|---------------------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|----------------------|
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 15  | 6025        | 14.90               | 15.00               | 1.023                  | 85.07        | 1.176                     | -0.09            | 0.001                  | 0.001                  | 0.001                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 15  | 6025        | 14.80               | 15.00               | 1.047                  | 85.07        | 1.176                     | -0.09            | 0.448                  | 0.552                  | 2.530                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 47  | 6185        | 14.80               | 15.00               | 1.047                  | 85.07        | 1.176                     | 0.01             | 0.070                  | 0.086                  | 0.474                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 47  | 6185        | 14.50               | 15.00               | 1.122                  | 85.07        | 1.176                     | 0.01             | 0.460                  | 0.607                  | 2.520                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 111 | 6505        | 13.00               | 13.00               | 1.000                  | 85.07        | 1.176                     | 0.13             | 0.129                  | 0.152                  | 0.950                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 111 | 6505        | 12.70               | 13.00               | 1.072                  | 85.07        | 1.176                     | 0.13             | 0.296                  | 0.373                  | 2.010                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 175 | 6825        | 11.40               | 11.50               | 1.023                  | 85.07        | 1.176                     | -0.14            | 0.096                  | 0.116                  | 0.615                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 175 | 6825        | 11.40               | 11.50               | 1.023                  | 85.07        | 1.176                     | -0.14            | 0.259                  | 0.312                  | 1.670                |
| 35       | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 1/2         | 207 | 6985        | 14.40               | 15.00               | 1.148                  | 85.07        | 1.176                     | 0.19             | 0.114                  | 0.154                  | 0.823                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 1/2         | 207 | 6985        | 14.70               | 15.00               | 1.072                  | 85.07        | 1.176                     | 0.19             | 0.588                  | 0.741                  | 3.620                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 1/2         | 15  | 6025        | 14.90               | 15.00               | 1.023                  | 85.07        | 1.176                     | 0.1              | 0.062                  | 0.075                  | 0.444                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 1/2         | 15  | 6025        | 14.80               | 15.00               | 1.047                  | 85.07        | 1.176                     | 0.1              | 0.108                  | 0.133                  | 0.633                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 1/2         | 15  | 6025        | 14.90               | 15.00               | 1.023                  | 85.07        | 1.176                     | 0.13             | 0.297                  | 0.357                  | 2.000                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 1/2         | 15  | 6025        | 14.80               | 15.00               | 1.047                  | 85.07        | 1.176                     | 0.13             | 0.105                  | 0.129                  | 0.789                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 1/2         | 15  | 6025        | 14.90               | 15.00               | 1.023                  | 85.07        | 1.176                     | -0.02            | 0.183                  | 0.220                  | 1.190                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 1/2         | 15  | 6025        | 14.80               | 15.00               | 1.047                  | 85.07        | 1.176                     | -0.02            | 0.001                  | 0.001                  | 0.001                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 3/4         | 15  | 6025        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | -0.19            | 0.093                  | 0.112                  | 0.598                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 3/4         | 15  | 6025        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | -0.19            | 0.317                  | 0.381                  | 1.750                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 3/4         | 47  | 6185        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | 0                | 0.053                  | 0.064                  | 0.363                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 3/4         | 47  | 6185        | 13.70               | 14.00               | 1.072                  | 85.07        | 1.176                     | 0                | 0.378                  | 0.476                  | 2.100                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 3/4         | 111 | 6505        | 13.00               | 13.00               | 1.000                  | 85.07        | 1.176                     | 0.13             | 0.129                  | 0.152                  | 0.950                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 3/4         | 111 | 6505        | 12.70               | 13.00               | 1.072                  | 85.07        | 1.176                     | 0.13             | 0.296                  | 0.373                  | 2.010                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 3/4         | 175 | 6825        | 11.40               | 11.50               | 1.023                  | 85.07        | 1.176                     | -0.14            | 0.096                  | 0.116                  | 0.615                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 3/4         | 175 | 6825        | 11.40               | 11.50               | 1.023                  | 85.07        | 1.176                     | -0.14            | 0.259                  | 0.312                  | 1.670                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(4) | 3/4         | 207 | 6985        | 13.20               | 13.50               | 1.072                  | 85.07        | 1.176                     | 0.18             | 0.097                  | 0.122                  | 0.667                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Cheek   | 0mm      | Ant 4+3(3) | 3/4         | 207 | 6985        | 13.40               | 13.50               | 1.023                  | 85.07        | 1.176                     | 0.18             | 0.257                  | 0.309                  | 1.680                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(4) | 3/4         | 15  | 6025        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | -0.1             | 0.023                  | 0.028                  | 0.119                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Right Tilted  | 0mm      | Ant 4+3(3) | 3/4         | 15  | 6025        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | -0.1             | 0.101                  | 0.122                  | 0.534                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(4) | 3/4         | 15  | 6025        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | -0.12            | 0.204                  | 0.245                  | 1.400                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Left Cheek    | 0mm      | Ant 4+3(3) | 3/4         | 15  | 6025        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | -0.12            | 0.108                  | 0.130                  | 0.799                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(4) | 3/4         | 15  | 6025        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | -0.05            | 0.124                  | 0.149                  | 0.844                |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Left Tilted   | 0mm      | Ant 4+3(3) | 3/4         | 15  | 6025        | 13.90               | 14.00               | 1.023                  | 85.07        | 1.176                     | -0.05            | 0.050                  | 0.060                  | 0.310                |

**<Bluetooth SAR>**

| Plot No. | Band      | Mode  | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | 1Mbps | Right Cheek   | 0mm      | Ant 4      | 1           | 39  | 2441        | 11.91               | 12.00               | 1.021                  | 77.22        | 1.079                     | 0.06             | 0.071                  | 0.078                  |
|          | Bluetooth | 1Mbps | Right Tilted  | 0mm      | Ant 4      | 1           | 39  | 2441        | 11.91               | 12.00               | 1.021                  | 77.22        | 1.079                     | -0.02            | 0.121                  | 0.133                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 4      | 1           | 39  | 2441        | 11.91               | 12.00               | 1.021                  | 77.22        | 1.079                     | 0.04             | 0.195                  | 0.215                  |
|          | Bluetooth | 1Mbps | Left Tilted   | 0mm      | Ant 4      | 1           | 39  | 2441        | 11.91               | 12.00               | 1.021                  | 77.22        | 1.079                     | -0.1             | 0.220                  | 0.242                  |
|          | Bluetooth | 1Mbps | Left Tilted   | 0mm      | Ant 4      | 1           | 0   | 2402        | 10.79               | 12.00               | 1.321                  | 77.22        | 1.079                     | -0.05            | 0.169                  | 0.241                  |
|          | Bluetooth | 1Mbps | Left Tilted   | 0mm      | Ant 4      | 1           | 78  | 2480        | 11.50               | 12.00               | 1.122                  | 77.22        | 1.079                     | 0.04             | 0.192                  | 0.232                  |
|          | Bluetooth | 1Mbps | Right Cheek   | 0mm      | Ant 3      | 1           | 39  | 2441        | 11.52               | 12.00               | 1.117                  | 77.22        | 1.079                     | -0.08            | 0.069                  | 0.083                  |
|          | Bluetooth | 1Mbps | Right Tilted  | 0mm      | Ant 3      | 1           | 39  | 2441        | 11.52               | 12.00               | 1.117                  | 77.22        | 1.079                     | -0.04            | 0.017                  | 0.020                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 3      | 1           | 39  | 2441        | 11.52               | 12.00               | 1.117                  | 77.22        | 1.079                     | -0.07            | 0.110                  | 0.133                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 3      | 1           | 0   | 2402        | 10.62               | 12.00               | 1.374                  | 77.22        | 1.079                     | -0.06            | 0.113                  | 0.168                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 3      | 1           | 78  | 2480        | 10.29               | 12.00               | 1.483                  | 77.22        | 1.079                     | -0.03            | 0.072                  | 0.115                  |
|          | Bluetooth | 1Mbps | Left Tilted   | 0mm      | Ant 3      | 1           | 39  | 2441        | 11.52               | 12.00               | 1.117                  | 77.22        | 1.079                     | 0.02             | 0.009                  | 0.011                  |
|          | Bluetooth | 1Mbps | Right Cheek   | 0mm      | Ant 4+3(4) | 1           | 39  | 2441        | 11.79               | 12.00               | 1.050                  | 77.22        | 1.079                     | -0.11            | 0.084                  | 0.095                  |
|          | Bluetooth | 1Mbps | Right Cheek   | 0mm      | Ant 4+3(3) | 1           | 39  | 2441        | 11.07               | 12.00               | 1.239                  | 77.22        | 1.079                     | -0.11            | 0.065                  | 0.087                  |
|          | Bluetooth | 1Mbps | Right Tilted  | 0mm      | Ant 4+3(4) | 1           | 39  | 2441        | 11.79               | 12.00               | 1.050                  | 77.22        | 1.079                     | 0.13             | 0.078                  | 0.088                  |
|          | Bluetooth | 1Mbps | Right Tilted  | 0mm      | Ant 4+3(3) | 1           | 39  | 2441        | 11.07               | 12.00               | 1.239                  | 77.22        | 1.079                     | 0.13             | 0.019                  | 0.025                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 4+3(4) | 1           | 39  | 2441        | 11.79               | 12.00               | 1.050                  | 77.22        | 1.079                     | 0.1              | 0.189                  | 0.214                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 4+3(3) | 1           | 39  | 2441        | 11.07               | 12.00               | 1.239                  | 77.22        | 1.079                     | 0.1              | 0.085                  | 0.114                  |
| 36       | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 4+3(4) | 1           | 0   | 2402        | 10.62               | 12.00               | 1.374                  | 77.22        | 1.079                     | 0.16             | 0.170                  | 0.252                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 4+3(3) | 1           | 0   | 2402        | 10.51               | 12.00               | 1.409                  | 77.22        | 1.079                     | 0.16             | 0.104                  | 0.158                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 4+3(4) | 1           | 78  | 2480        | 11.38               | 12.00               | 1.153                  | 77.22        | 1.079                     | 0.13             | 0.190                  | 0.236                  |
|          | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 4+3(3) | 1           | 78  | 2480        | 10.17               | 12.00               | 1.524                  | 77.22        | 1.079                     | 0.13             | 0.060                  | 0.099                  |
|          | Bluetooth | 1Mbps | Left Tilted   | 0mm      | Ant 4+3(4) | 1           | 39  | 2441        | 11.79               | 12.00               | 1.050                  | 77.22        | 1.079                     | 0.03             | 0.186                  | 0.211                  |
|          | Bluetooth | 1Mbps | Left Tilted   | 0mm      | Ant 4+3(3) | 1           | 39  | 2441        | 11.07               | 12.00               | 1.239                  | 77.22        | 1.079                     | 0.03             | 0.020                  | 0.027                  |

## 15.2 Hotspot SAR

### <GSM SAR>

| Plot No. | Band          | Mode              | Test Position | Gap (mm) | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|-------------------|---------------|----------|-------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 37       | GSM850_Ant 0  | GPRS (4 Tx slots) | Front         | 10mm     | 4           | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | 0.02             | 0.684                  | 0.708                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Back          | 10mm     | 4           | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | 0                | 0.685                  | 0.709                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Back          | 10mm     | 4           | 189 | 836.4       | 29.80               | 30.50               | 1.175                  | 0.09             | 0.659                  | 0.774                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Back          | 10mm     | 4           | 251 | 848.8       | 29.77               | 30.50               | 1.183                  | 0.05             | 0.632                  | 0.748                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Left Side     | 10mm     | 4           | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | -0.03            | 0.571                  | 0.591                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Right Side    | 10mm     | 4           | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | -0.01            | 0.190                  | 0.197                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 4           | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | 0.06             | 0.683                  | 0.707                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Front         | 10mm     | 4           | 128 | 824.2       | 29.38               | 30.50               | 1.294                  | 0.02             | 0.267                  | 0.346                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 4           | 128 | 824.2       | 29.38               | 30.50               | 1.294                  | 0                | 0.363                  | 0.470                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 4           | 189 | 836.4       | 29.05               | 30.50               | 1.396                  | 0.05             | 0.373                  | 0.521                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 4           | 251 | 848.8       | 28.90               | 30.50               | 1.445                  | -0.06            | 0.454                  | 0.656                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Side     | 10mm     | 4           | 128 | 824.2       | 29.38               | 30.50               | 1.294                  | -0.03            | 0.146                  | 0.189                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Side    | 10mm     | 4           | 128 | 824.2       | 29.38               | 30.50               | 1.294                  | 0.01             | 0.123                  | 0.159                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Top Side      | 10mm     | 4           | 128 | 824.2       | 29.38               | 30.50               | 1.294                  | 0.07             | 0.219                  | 0.283                  |
| 38       | GSM1900_Ant 2 | GPRS (4 Tx slots) | Front         | 10mm     | 4           | 512 | 1850.2      | 27.09               | 27.40               | 1.074                  | 0.02             | 0.495                  | 0.532                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Back          | 10mm     | 4           | 512 | 1850.2      | 27.09               | 27.40               | 1.074                  | 0                | 0.707                  | 0.759                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Left Side     | 10mm     | 4           | 512 | 1850.2      | 27.09               | 27.40               | 1.074                  | 0.01             | 0.132                  | 0.142                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Right Side    | 10mm     | 4           | 512 | 1850.2      | 27.09               | 27.40               | 1.074                  | -0.01            | 0.827                  | 0.888                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Right Side    | 10mm     | 4           | 661 | 1880        | 27.08               | 27.40               | 1.076                  | 0.07             | 0.549                  | 0.591                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Right Side    | 10mm     | 4           | 810 | 1909.8      | 26.86               | 27.40               | 1.132                  | -0.1             | 0.500                  | 0.566                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 4           | 512 | 1850.2      | 27.09               | 27.40               | 1.074                  | 0.06             | 0.197                  | 0.212                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Front         | 10mm     | 4           | 512 | 1850.2      | 22.22               | 23.00               | 1.197                  | 0.01             | 0.336                  | 0.402                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Back          | 10mm     | 4           | 512 | 1850.2      | 22.22               | 23.00               | 1.197                  | -0.05            | 0.317                  | 0.379                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Left Side     | 10mm     | 4           | 512 | 1850.2      | 22.22               | 23.00               | 1.197                  | -0.03            | 0.050                  | 0.060                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Right Side    | 10mm     | 4           | 512 | 1850.2      | 22.22               | 23.00               | 1.197                  | 0.05             | 0.001                  | 0.001                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 4           | 512 | 1850.2      | 22.22               | 23.00               | 1.197                  | 0.09             | 0.747                  | 0.894                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 4           | 661 | 1880        | 22.02               | 23.00               | 1.253                  | 0.01             | 0.576                  | 0.722                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 4           | 810 | 1909.8      | 21.37               | 23.00               | 1.455                  | 0                | 0.392                  | 0.571                  |

**<WCDMA SAR>**

| Plot No. | Band           | Mode         | Test Position | Gap (mm) | Power Index | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------------|--------------|---------------|----------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Front         | 10mm     | 4           | 9262 | 1852.4      | 21.60               | 22.60               | 1.259                  | 0.03             | 0.494                  | 0.622                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 4           | 9262 | 1852.4      | 21.60               | 22.60               | 1.259                  | -0.1             | 0.636                  | 0.801                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 4           | 9400 | 1880        | 21.50               | 22.60               | 1.288                  | -0.02            | 0.628                  | 0.809                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 4           | 9538 | 1907.6      | 21.41               | 22.60               | 1.315                  | 0.01             | 0.527                  | 0.693                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Left Side     | 10mm     | 4           | 9262 | 1852.4      | 21.60               | 22.60               | 1.259                  | 0.02             | 0.072                  | 0.091                  |
| 39       | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 9262 | 1852.4      | 21.60               | 22.60               | 1.259                  | 0.13             | 0.711                  | 0.895                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 9400 | 1880        | 21.50               | 22.60               | 1.288                  | -0.07            | 0.640                  | 0.824                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 9538 | 1907.6      | 21.41               | 22.60               | 1.315                  | -0.06            | 0.576                  | 0.758                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 9262 | 1852.4      | 21.60               | 22.60               | 1.259                  | 0.03             | 0.169                  | 0.213                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 4           | 9262 | 1852.4      | 17.62               | 18.00               | 1.091                  | -0.11            | 0.426                  | 0.465                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Back          | 10mm     | 4           | 9262 | 1852.4      | 17.62               | 18.00               | 1.091                  | -0.05            | 0.387                  | 0.422                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Left Side     | 10mm     | 4           | 9262 | 1852.4      | 17.62               | 18.00               | 1.091                  | -0.03            | 0.072                  | 0.079                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 9262 | 1852.4      | 17.62               | 18.00               | 1.091                  | 0.02             | 0.011                  | 0.012                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 9262 | 1852.4      | 17.62               | 18.00               | 1.091                  | 0.04             | 0.806                  | 0.880                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 9400 | 1880        | 17.54               | 18.00               | 1.112                  | 0.01             | 0.648                  | 0.720                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 9538 | 1907.6      | 17.40               | 18.00               | 1.148                  | -0.06            | 0.557                  | 0.640                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Front         | 10mm     | 4           | 1312 | 1712.4      | 22.57               | 23.00               | 1.104                  | 0.02             | 0.370                  | 0.409                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 4           | 1312 | 1712.4      | 22.57               | 23.00               | 1.104                  | -0.03            | 0.501                  | 0.553                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Left Side     | 10mm     | 4           | 1312 | 1712.4      | 22.57               | 23.00               | 1.104                  | -0.09            | 0.072                  | 0.079                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 1312 | 1712.4      | 22.57               | 23.00               | 1.104                  | -0.08            | 0.609                  | 0.672                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 1413 | 1732.6      | 22.43               | 23.00               | 1.140                  | -0.05            | 0.677                  | 0.772                  |
| 40       | WCDMA IV_Ant 2 | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 1513 | 1752.6      | 22.56               | 23.00               | 1.107                  | 0.01             | 0.809                  | 0.895                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 1312 | 1712.4      | 22.57               | 23.00               | 1.104                  | 0.03             | 0.249                  | 0.275                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 4           | 1513 | 1752.6      | 17.62               | 18.30               | 1.169                  | 0.03             | 0.443                  | 0.518                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Back          | 10mm     | 4           | 1513 | 1752.6      | 17.62               | 18.30               | 1.169                  | -0.12            | 0.420                  | 0.491                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Left Side     | 10mm     | 4           | 1513 | 1752.6      | 17.62               | 18.30               | 1.169                  | -0.01            | 0.090                  | 0.105                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 1513 | 1752.6      | 17.62               | 18.30               | 1.169                  | 0.06             | 0.010                  | 0.012                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 1513 | 1752.6      | 17.62               | 18.30               | 1.169                  | -0.14            | 0.757                  | 0.885                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 1312 | 1712.4      | 17.55               | 18.30               | 1.189                  | -0.03            | 0.623                  | 0.740                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 1413 | 1732.6      | 17.46               | 18.30               | 1.213                  | -0.07            | 0.700                  | 0.849                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Front         | 10mm     | 4           | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | 0.11             | 0.551                  | 0.649                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Back          | 10mm     | 4           | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | -0.09            | 0.576                  | 0.678                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Back          | 10mm     | 4           | 4132 | 826.4       | 24.67               | 25.40               | 1.183                  | 0.14             | 0.603                  | 0.713                  |
| 41       | WCDMA V_Ant 0  | RMC 12.2Kbps | Back          | 10mm     | 4           | 4233 | 846.6       | 24.67               | 25.40               | 1.183                  | -0.01            | 0.635                  | 0.751                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Left Side     | 10mm     | 4           | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | -0.08            | 0.397                  | 0.468                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | 0.14             | 0.149                  | 0.175                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Bottom Side   | 10mm     | 4           | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | -0.07            | 0.561                  | 0.661                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 4           | 4182 | 836.4       | 24.72               | 25.40               | 1.169                  | 0.15             | 0.371                  | 0.434                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 4           | 4182 | 836.4       | 24.72               | 25.40               | 1.169                  | 0.09             | 0.526                  | 0.615                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 4           | 4132 | 826.4       | 24.71               | 25.40               | 1.172                  | 0.12             | 0.501                  | 0.587                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 4           | 4233 | 846.6       | 24.62               | 25.40               | 1.197                  | -0.1             | 0.559                  | 0.669                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Side     | 10mm     | 4           | 4182 | 836.4       | 24.72               | 25.40               | 1.169                  | 0.04             | 0.205                  | 0.240                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Side    | 10mm     | 4           | 4182 | 836.4       | 24.72               | 25.40               | 1.169                  | 0.06             | 0.228                  | 0.267                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Top Side      | 10mm     | 4           | 4182 | 836.4       | 24.72               | 25.40               | 1.169                  | -0.07            | 0.285                  | 0.333                  |



**<FDD LTE SAR>**

| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 18900 | 1880        | 19.16               | 19.90               | 1.186                  | 0.01             | 0.384                  | 0.455                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 18900 | 1880        | 18.91               | 19.90               | 1.256                  | 0.05             | 0.394                  | 0.495                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 18900 | 1880        | 19.16               | 19.90               | 1.186                  | -0.03            | 0.352                  | 0.417                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 18900 | 1880        | 18.91               | 19.90               | 1.256                  | -0.05            | 0.356                  | 0.447                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 18900 | 1880        | 19.16               | 19.90               | 1.186                  | -0.06            | 0.126                  | 0.149                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 18900 | 1880        | 18.91               | 19.90               | 1.256                  | 0.07             | 0.131                  | 0.165                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 18900 | 1880        | 19.16               | 19.90               | 1.186                  | 0.02             | 0.001                  | 0.001                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 18900 | 1880        | 18.91               | 19.90               | 1.256                  | -0.03            | 0.001                  | 0.001                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 18900 | 1880        | 19.16               | 19.90               | 1.186                  | 0.01             | 0.603                  | 0.715                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 18900 | 1880        | 18.91               | 19.90               | 1.256                  | 0                | 0.601                  | 0.755                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 18700 | 1860        | 18.90               | 19.90               | 1.259                  | 0.06             | 0.465                  | 0.585                  |
| 42       | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 19100 | 1900        | 18.87               | 19.90               | 1.268                  | -0.05            | 0.703                  | 0.891                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | 4           | 18900 | 1880        | 18.92               | 19.90               | 1.253                  | -0.07            | 0.618                  | 0.774                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 18700 | 1860        | 21.78               | 23.00               | 1.324                  | 0.01             | 0.283                  | 0.375                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 18700 | 1860        | 21.66               | 23.00               | 1.361                  | 0                | 0.283                  | 0.385                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 18700 | 1860        | 21.78               | 23.00               | 1.324                  | 0.05             | 0.431                  | 0.571                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 18700 | 1860        | 21.66               | 23.00               | 1.361                  | -0.03            | 0.415                  | 0.565                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 18700 | 1860        | 21.78               | 23.00               | 1.324                  | -0.02            | 0.001                  | 0.001                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 18700 | 1860        | 21.66               | 23.00               | 1.361                  | 0.01             | 0.001                  | 0.001                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 18700 | 1860        | 21.78               | 23.00               | 1.324                  | 0.15             | 0.629                  | 0.833                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 18900 | 1880        | 21.76               | 23.00               | 1.330                  | 0.04             | 0.536                  | 0.713                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 19100 | 1900        | 21.76               | 23.00               | 1.330                  | -0.02            | 0.529                  | 0.704                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 18700 | 1860        | 21.66               | 23.00               | 1.361                  | 0.07             | 0.609                  | 0.829                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 18900 | 1880        | 21.65               | 23.00               | 1.365                  | -0.02            | 0.560                  | 0.764                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 19100 | 1900        | 21.60               | 23.00               | 1.380                  | 0.01             | 0.543                  | 0.750                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 100     | 0         | Right Side    | 10mm     | 4           | 18700 | 1860        | 21.66               | 23.00               | 1.361                  | 0.05             | 0.582                  | 0.792                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 18700 | 1860        | 21.78               | 23.00               | 1.324                  | -0.02            | 0.063                  | 0.083                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 18700 | 1860        | 21.66               | 23.00               | 1.361                  | 0.1              | 0.067                  | 0.091                  |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 21100       | 2535        | 21.11               | 22.00               | 1.227                  | 0.02             | 0.372                  | 0.457                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 21100       | 2535        | 21.05               | 22.00               | 1.245                  | 0.05             | 0.381                  | 0.474                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 21100       | 2535        | 21.11               | 22.00               | 1.227                  | -0.04            | 0.432                  | 0.530                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 21100       | 2535        | 21.05               | 22.00               | 1.245                  | 0.03             | 0.445                  | 0.554                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 21100       | 2535        | 21.11               | 22.00               | 1.227                  | 0                | 0.001                  | 0.001                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 21100       | 2535        | 21.05               | 22.00               | 1.245                  | 0.07             | 0.001                  | 0.001                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 21100       | 2535        | 21.11               | 22.00               | 1.227                  | -0.1             | 0.614                  | 0.754                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 20850       | 2510        | 21.05               | 22.00               | 1.245                  | 0.08             | 0.624                  | 0.777                  |
| 43       | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 21350       | 2560        | 21.09               | 22.00               | 1.233                  | -0.13            | 0.722                  | 0.890                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 21100       | 2535        | 21.05               | 22.00               | 1.245                  | 0.04             | 0.588                  | 0.732                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 100     | 0         | Right Side    | 10mm     | 4           | 21100       | 2535        | 21.07               | 22.00               | 1.239                  | 0.02             | 0.583                  | 0.722                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 21100       | 2535        | 21.11               | 22.00               | 1.227                  | -0.01            | 0.130                  | 0.160                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 21100       | 2535        | 21.05               | 22.00               | 1.245                  | 0.06             | 0.132                  | 0.164                  |
|          | LTE Band 7C_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 21100+20902 | 2535        | 20.57               | 22.00               | 1.390                  | 0.04             | 0.506                  | 0.703                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 21100       | 2535        | 17.08               | 18.30               | 1.324                  | 0.01             | 0.326                  | 0.432                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 21100       | 2535        | 17.01               | 18.30               | 1.346                  | 0.03             | 0.335                  | 0.451                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 21100       | 2535        | 17.08               | 18.30               | 1.324                  | 0.08             | 0.334                  | 0.442                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 21100       | 2535        | 17.01               | 18.30               | 1.346                  | -0.12            | 0.341                  | 0.459                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 21100       | 2535        | 17.08               | 18.30               | 1.324                  | -0.1             | 0.051                  | 0.068                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 21100       | 2535        | 17.01               | 18.30               | 1.346                  | -0.02            | 0.052                  | 0.070                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 21100       | 2535        | 17.08               | 18.30               | 1.324                  | 0.13             | 0.001                  | 0.001                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 21100       | 2535        | 17.01               | 18.30               | 1.346                  | -0.11            | 0.001                  | 0.001                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 21100       | 2535        | 17.08               | 18.30               | 1.324                  | -0.15            | 0.611                  | 0.809                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 20850       | 2510        | 16.96               | 18.30               | 1.361                  | 0.03             | 0.551                  | 0.750                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 21350       | 2560        | 16.97               | 18.30               | 1.358                  | -0.02            | 0.614                  | 0.834                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 21100       | 2535        | 17.01               | 18.30               | 1.346                  | 0.04             | 0.595                  | 0.801                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 20850       | 2510        | 16.97               | 18.30               | 1.358                  | 0.03             | 0.562                  | 0.763                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 21350       | 2560        | 16.99               | 18.30               | 1.352                  | -0.15            | 0.596                  | 0.806                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10mm     | 4           | 21100       | 2535        | 16.95               | 18.30               | 1.365                  | -0.06            | 0.580                  | 0.791                  |
|          | LTE Band 7C_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 21100+20902 | 2535        | 16.36               | 18.30               | 1.563                  | 0.1              | 0.462                  | 0.722                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | 0.02             | 0.325                  | 0.390                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 4           | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | 0                | 0.269                  | 0.323                  |
| 44       | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | -0.15            | 0.356                  | 0.427                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 4           | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | -0.02            | 0.298                  | 0.358                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | -0.1             | 0.309                  | 0.371                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 4           | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | 0.01             | 0.233                  | 0.280                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | 0.02             | 0.164                  | 0.197                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 4           | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | -0.03            | 0.134                  | 0.161                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 23095       | 707.5       | 24.61               | 25.40               | 1.199                  | 0.05             | 0.331                  | 0.397                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 10mm     | 4           | 23095       | 707.5       | 23.60               | 24.40               | 1.202                  | -0.01            | 0.258                  | 0.310                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 23095       | 707.5       | 24.77               | 25.40               | 1.156                  | 0.01             | 0.237                  | 0.274                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 4           | 23095       | 707.5       | 23.75               | 24.40               | 1.161                  | 0                | 0.197                  | 0.229                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 23095       | 707.5       | 24.77               | 25.40               | 1.156                  | -0.05            | 0.273                  | 0.316                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 4           | 23095       | 707.5       | 23.75               | 24.40               | 1.161                  | 0.04             | 0.225                  | 0.261                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 23095       | 707.5       | 24.77               | 25.40               | 1.156                  | -0.03            | 0.229                  | 0.265                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 4           | 23095       | 707.5       | 23.75               | 24.40               | 1.161                  | 0.02             | 0.119                  | 0.138                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 23095       | 707.5       | 24.77               | 25.40               | 1.156                  | -0.05            | 0.176                  | 0.203                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 4           | 23095       | 707.5       | 23.75               | 24.40               | 1.161                  | 0.06             | 0.168                  | 0.195                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 23095       | 707.5       | 24.77               | 25.40               | 1.156                  | 0.1              | 0.170                  | 0.197                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Top Side      | 10mm     | 4           | 23095       | 707.5       | 23.75               | 24.40               | 1.161                  | 0.05             | 0.100                  | 0.116                  |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 45       | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 23230 | 782         | 24.47               | 25.40               | 1.239                  | 0.02             | 0.470                  | 0.582                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 4           | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0                | 0.385                  | 0.474                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 23230 | 782         | 24.47               | 25.40               | 1.239                  | -0.07            | 0.545                  | 0.675                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 4           | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0.05             | 0.443                  | 0.545                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 23230 | 782         | 24.47               | 25.40               | 1.239                  | -0.08            | 0.665                  | 0.824                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 4           | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0.01             | 0.521                  | 0.641                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 23230 | 782         | 23.46               | 24.40               | 1.242                  | 0.04             | 0.543                  | 0.674                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 23230 | 782         | 24.47               | 25.40               | 1.239                  | -0.03            | 0.298                  | 0.369                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 4           | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0.02             | 0.216                  | 0.266                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 23230 | 782         | 24.47               | 25.40               | 1.239                  | 0.05             | 0.531                  | 0.658                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 10mm     | 4           | 23230 | 782         | 23.50               | 24.40               | 1.230                  | -0.01            | 0.388                  | 0.477                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 23230 | 782         | 24.71               | 25.40               | 1.172                  | 0.01             | 0.308                  | 0.361                  |
| 46       | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 4           | 23230 | 782         | 23.65               | 24.40               | 1.189                  | 0                | 0.251                  | 0.298                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 23230 | 782         | 24.71               | 25.40               | 1.172                  | -0.08            | 0.402                  | 0.471                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 4           | 23230 | 782         | 23.65               | 24.40               | 1.189                  | 0.05             | 0.311                  | 0.370                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 23230 | 782         | 24.71               | 25.40               | 1.172                  | -0.02            | 0.297                  | 0.348                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 4           | 23230 | 782         | 23.65               | 24.40               | 1.189                  | 0.03             | 0.205                  | 0.244                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 23230 | 782         | 24.71               | 25.40               | 1.172                  | -0.04            | 0.239                  | 0.280                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 4           | 23230 | 782         | 23.65               | 24.40               | 1.189                  | -0.06            | 0.213                  | 0.253                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 23230 | 782         | 24.71               | 25.40               | 1.172                  | 0.1              | 0.193                  | 0.226                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Top Side      | 10mm     | 4           | 23230 | 782         | 23.65               | 24.40               | 1.189                  | 0.07             | 0.182                  | 0.216                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 23330 | 793         | 24.55               | 25.40               | 1.216                  | 0.01             | 0.544                  | 0.662                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 4           | 23330 | 793         | 23.55               | 24.40               | 1.216                  | 0                | 0.414                  | 0.504                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 23330 | 793         | 24.55               | 25.40               | 1.216                  | 0.07             | 0.607                  | 0.738                  |
| 46       | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 4           | 23330 | 793         | 23.55               | 24.40               | 1.216                  | 0.05             | 0.493                  | 0.600                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 23330 | 793         | 24.55               | 25.40               | 1.216                  | -0.02            | 0.543                  | 0.660                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 4           | 23330 | 793         | 23.55               | 24.40               | 1.216                  | 0.03             | 0.447                  | 0.544                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 23330 | 793         | 24.55               | 25.40               | 1.216                  | 0.01             | 0.226                  | 0.275                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 4           | 23330 | 793         | 23.55               | 24.40               | 1.216                  | -0.04            | 0.181                  | 0.220                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 23330 | 793         | 24.55               | 25.40               | 1.216                  | 0.01             | 0.566                  | 0.688                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 10mm     | 4           | 23330 | 793         | 23.55               | 24.40               | 1.216                  | 0.05             | 0.457                  | 0.556                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 23330 | 793         | 24.72               | 25.40               | 1.169                  | 0.02             | 0.311                  | 0.364                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 4           | 23330 | 793         | 23.75               | 24.40               | 1.161                  | 0.01             | 0.251                  | 0.292                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 23330 | 793         | 24.72               | 25.40               | 1.169                  | 0.11             | 0.392                  | 0.458                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 4           | 23330 | 793         | 23.75               | 24.40               | 1.161                  | 0                | 0.317                  | 0.368                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 23330 | 793         | 24.72               | 25.40               | 1.169                  | 0.05             | 0.281                  | 0.329                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 4           | 23330 | 793         | 23.75               | 24.40               | 1.161                  | -0.03            | 0.238                  | 0.276                  |
| 46       | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 23330 | 793         | 24.72               | 25.40               | 1.169                  | 0.04             | 0.234                  | 0.274                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 4           | 23330 | 793         | 23.75               | 24.40               | 1.161                  | -0.05            | 0.202                  | 0.235                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 23330 | 793         | 24.72               | 25.40               | 1.169                  | 0.06             | 0.238                  | 0.278                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Top Side      | 10mm     | 4           | 23330 | 793         | 23.75               | 24.40               | 1.161                  | 0.1              | 0.182                  | 0.211                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 26340       | 1880        | 22.35               | 23.40               | 1.274                  | 0.01             | 0.336                  | 0.428                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 26340       | 1880        | 22.22               | 23.40               | 1.312                  | 0                | 0.335                  | 0.440                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 26340       | 1880        | 22.35               | 23.40               | 1.274                  | 0.05             | 0.595                  | 0.758                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 26140       | 1860        | 22.23               | 23.40               | 1.309                  | -0.03            | 0.602                  | 0.788                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 26590       | 1905        | 22.14               | 23.40               | 1.337                  | 0.06             | 0.614                  | 0.821                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 26340       | 1880        | 22.22               | 23.40               | 1.312                  | 0.01             | 0.519                  | 0.681                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 4           | 26340       | 1880        | 22.18               | 23.40               | 1.324                  | -0.08            | 0.510                  | 0.675                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 26340       | 1880        | 22.35               | 23.40               | 1.274                  | 0.1              | 0.071                  | 0.090                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 26340       | 1880        | 22.22               | 23.40               | 1.312                  | 0.04             | 0.069                  | 0.091                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 26340       | 1880        | 22.35               | 23.40               | 1.274                  | -0.05            | 0.464                  | 0.591                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 26340       | 1880        | 22.22               | 23.40               | 1.312                  | 0.03             | 0.438                  | 0.575                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 26340       | 1880        | 22.35               | 23.40               | 1.274                  | 0.02             | 0.125                  | 0.159                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 26340       | 1880        | 22.22               | 23.40               | 1.312                  | 0.07             | 0.133                  | 0.175                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 26340       | 1880        | 17.77               | 18.80               | 1.268                  | 0.02             | 0.342                  | 0.434                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 26340       | 1880        | 17.74               | 18.80               | 1.276                  | 0                | 0.336                  | 0.429                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 26340       | 1880        | 17.77               | 18.80               | 1.268                  | 0.03             | 0.314                  | 0.398                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 26340       | 1880        | 17.74               | 18.80               | 1.276                  | -0.05            | 0.314                  | 0.401                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 26340       | 1880        | 17.77               | 18.80               | 1.268                  | 0.02             | 0.061                  | 0.077                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 26340       | 1880        | 17.74               | 18.80               | 1.276                  | 0                | 0.062                  | 0.079                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 26340       | 1880        | 17.77               | 18.80               | 1.268                  | 0.05             | 0.001                  | 0.001                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 26340       | 1880        | 17.74               | 18.80               | 1.276                  | -0.04            | 0.001                  | 0.001                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 26340       | 1880        | 17.77               | 18.80               | 1.268                  | 0.02             | 0.549                  | 0.696                  |
| 47       | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 26140       | 1860        | 17.72               | 18.80               | 1.282                  | -0.01            | 0.691                  | 0.886                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 26590       | 1905        | 17.41               | 18.80               | 1.377                  | 0                | 0.446                  | 0.614                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 26340       | 1880        | 17.74               | 18.80               | 1.276                  | 0.01             | 0.539                  | 0.688                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10mm     | 4           | 26340       | 1880        | 17.54               | 18.80               | 1.337                  | 0.03             | 0.530                  | 0.708                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | 0.07             | 0.434                  | 0.539                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Front         | 10mm     | 4           | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0.02             | 0.340                  | 0.423                  |
| 48       | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | 0.06             | 0.493                  | 0.612                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Back          | 10mm     | 4           | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0.01             | 0.391                  | 0.487                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | 0                | 0.380                  | 0.472                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Left Side     | 10mm     | 4           | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0.05             | 0.312                  | 0.388                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | -0.02            | 0.125                  | 0.155                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Right Side    | 10mm     | 4           | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0.03             | 0.102                  | 0.127                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | -0.04            | 0.466                  | 0.579                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Bottom Side   | 10mm     | 4           | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0.08             | 0.373                  | 0.464                  |
|          | LTE Band 5B_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 20525+20624 | 836.5       | 23.07               | 23.70               | 1.156                  | 0.05             | 0.330                  | 0.382                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 26865       | 831.5       | 24.84               | 25.40               | 1.138                  | 0.01             | 0.289                  | 0.329                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Front         | 10mm     | 4           | 26865       | 831.5       | 23.75               | 24.40               | 1.161                  | 0                | 0.233                  | 0.271                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 26865       | 831.5       | 24.84               | 25.40               | 1.138                  | 0.04             | 0.416                  | 0.473                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Back          | 10mm     | 4           | 26865       | 831.5       | 23.75               | 24.40               | 1.161                  | 0.05             | 0.344                  | 0.400                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 26865       | 831.5       | 24.84               | 25.40               | 1.138                  | -0.02            | 0.153                  | 0.174                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Left Side     | 10mm     | 4           | 26865       | 831.5       | 23.75               | 24.40               | 1.161                  | 0.04             | 0.122                  | 0.142                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 26865       | 831.5       | 24.84               | 25.40               | 1.138                  | -0.01            | 0.213                  | 0.242                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Right Side    | 10mm     | 4           | 26865       | 831.5       | 23.75               | 24.40               | 1.161                  | 0.05             | 0.177                  | 0.206                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 26865       | 831.5       | 24.84               | 25.40               | 1.138                  | 0.09             | 0.207                  | 0.235                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Top Side      | 10mm     | 4           | 26865       | 831.5       | 23.75               | 24.40               | 1.161                  | -0.1             | 0.165                  | 0.192                  |
|          | LTE Band 5B_Ant 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 20525+20624 | 836.5       | 23.89               | 24.00               | 1.026                  | 0.03             | 0.289                  | 0.296                  |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 27710 | 2310        | 21.84               | 22.10               | 1.062                  | 0.02             | 0.461                  | 0.489                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 4           | 27710 | 2310        | 21.88               | 22.10               | 1.052                  | 0                | 0.474                  | 0.499                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 27710 | 2310        | 21.84               | 22.10               | 1.062                  | 0.06             | 0.519                  | 0.551                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 4           | 27710 | 2310        | 21.88               | 22.10               | 1.052                  | 0.02             | 0.513                  | 0.540                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 27710 | 2310        | 21.84               | 22.10               | 1.062                  | -0.01            | 0.001                  | 0.001                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 4           | 27710 | 2310        | 21.88               | 22.10               | 1.052                  | 0.04             | 0.001                  | 0.001                  |
| 49       | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 27710 | 2310        | 21.84               | 22.10               | 1.062                  | -0.03            | 0.828                  | 0.879                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 4           | 27710 | 2310        | 21.88               | 22.10               | 1.052                  | -0.08            | 0.830                  | 0.873                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 27710 | 2310        | 21.86               | 22.10               | 1.057                  | 0.1              | 0.778                  | 0.822                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 27710 | 2310        | 21.84               | 22.10               | 1.062                  | 0.07             | 0.219                  | 0.233                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 10mm     | 4           | 27710 | 2310        | 21.88               | 22.10               | 1.052                  | -0.03            | 0.217                  | 0.228                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 27710 | 2310        | 17.36               | 18.00               | 1.159                  | 0.01             | 0.337                  | 0.391                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 4           | 27710 | 2310        | 17.31               | 18.00               | 1.172                  | 0.11             | 0.334                  | 0.392                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 27710 | 2310        | 17.36               | 18.00               | 1.159                  | 0.02             | 0.362                  | 0.419                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 4           | 27710 | 2310        | 17.31               | 18.00               | 1.172                  | 0.06             | 0.356                  | 0.417                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 27710 | 2310        | 17.36               | 18.00               | 1.159                  | -0.11            | 0.040                  | 0.046                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 4           | 27710 | 2310        | 17.31               | 18.00               | 1.172                  | -0.19            | 0.036                  | 0.042                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 27710 | 2310        | 17.36               | 18.00               | 1.159                  | -0.11            | 0.001                  | 0.001                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 4           | 27710 | 2310        | 17.31               | 18.00               | 1.172                  | -0.15            | 0.001                  | 0.001                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 27710 | 2310        | 17.36               | 18.00               | 1.159                  | 0.01             | 0.673                  | 0.780                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 10mm     | 4           | 27710 | 2310        | 17.31               | 18.00               | 1.172                  | 0.06             | 0.659                  | 0.772                  |



| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.           | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-------------|---------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 132322        | 1745        | 22.39               | 23.30               | 1.233                  | 0.01             | 0.445                  | 0.549                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 132322        | 1745        | 22.42               | 23.30               | 1.225                  | 0                | 0.454                  | 0.556                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 132322        | 1745        | 22.39               | 23.30               | 1.233                  | 0.05             | 0.526                  | 0.649                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 132322        | 1745        | 22.42               | 23.30               | 1.225                  | 0.04             | 0.581                  | 0.712                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 132322        | 1745        | 22.39               | 23.30               | 1.233                  | 0.01             | 0.064                  | 0.079                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 132322        | 1745        | 22.42               | 23.30               | 1.225                  | 0                | 0.058                  | 0.071                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132322        | 1745        | 22.39               | 23.30               | 1.233                  | -0.01            | 0.671                  | 0.827                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132072        | 1720        | 22.38               | 23.30               | 1.236                  | 0.05             | 0.593                  | 0.733                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132572        | 1770        | 22.35               | 23.30               | 1.245                  | -0.02            | 0.639                  | 0.795                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 132322        | 1745        | 22.42               | 23.30               | 1.225                  | -0.03            | 0.655                  | 0.802                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 132072        | 1720        | 22.39               | 23.30               | 1.233                  | 0.04             | 0.585                  | 0.721                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 132572        | 1770        | 22.41               | 23.30               | 1.227                  | 0.01             | 0.666                  | 0.817                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 100     | 0         | Right Side    | 10mm     | 4           | 132322        | 1745        | 22.37               | 23.30               | 1.239                  | 0.08             | 0.665                  | 0.824                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 132322        | 1745        | 22.39               | 23.30               | 1.233                  | -0.07            | 0.228                  | 0.281                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 132322        | 1745        | 22.42               | 23.30               | 1.225                  | -0.1             | 0.200                  | 0.245                  |
|          | LTE Band 66B_Ant 2 | 15M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132322+132229 | 1745        | 22.83               | 23.30               | 1.114                  | 0.08             | 0.671                  | 0.748                  |
|          | LTE Band 66C_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132322+132124 | 1745        | 22.97               | 23.30               | 1.079                  | -0.06            | 0.699                  | 0.754                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 132322        | 1745        | 16.41               | 17.30               | 1.227                  | 0.03             | 0.395                  | 0.485                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 132322        | 1745        | 16.52               | 17.30               | 1.197                  | -0.11            | 0.406                  | 0.486                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 132322        | 1745        | 16.41               | 17.30               | 1.227                  | -0.19            | 0.361                  | 0.443                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 132322        | 1745        | 16.52               | 17.30               | 1.197                  | 0.05             | 0.365                  | 0.437                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 132322        | 1745        | 16.41               | 17.30               | 1.227                  | -0.11            | 0.073                  | 0.090                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 132322        | 1745        | 16.52               | 17.30               | 1.197                  | -0.1             | 0.076                  | 0.091                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132322        | 1745        | 16.41               | 17.30               | 1.227                  | 0                | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 132322        | 1745        | 16.52               | 17.30               | 1.197                  | 0                | 0.001                  | 0.001                  |
| 50       | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 132322        | 1745        | 16.41               | 17.30               | 1.227                  | -0.14            | 0.726                  | 0.891                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 132072        | 1720        | 16.40               | 17.30               | 1.230                  | -0.15            | 0.627                  | 0.771                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 132572        | 1770        | 16.18               | 17.30               | 1.294                  | 0.15             | 0.641                  | 0.830                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 132322        | 1745        | 16.52               | 17.30               | 1.197                  | -0.11            | 0.726                  | 0.869                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 132072        | 1720        | 16.51               | 17.30               | 1.199                  | 0.03             | 0.699                  | 0.838                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 132572        | 1770        | 16.26               | 17.30               | 1.271                  | -0.04            | 0.691                  | 0.878                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10mm     | 4           | 132322        | 1745        | 16.39               | 17.30               | 1.233                  | 0.07             | 0.670                  | 0.826                  |
|          | LTE Band 66B_Ant 0 | 15M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 132322+132229 | 1745        | 15.33               | 17.30               | 1.574                  | 0.07             | 0.421                  | 0.663                  |
|          | LTE Band 66C_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 132322+132124 | 1745        | 15.98               | 17.30               | 1.355                  | 0.01             | 0.482                  | 0.653                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 132072 | 1720        | 22.63               | 23.20               | 1.140                  | 0.01             | 0.427                  | 0.487                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 132072 | 1720        | 22.39               | 23.20               | 1.205                  | 0.05             | 0.401                  | 0.483                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 132072 | 1720        | 22.63               | 23.20               | 1.140                  | -0.03            | 0.410                  | 0.468                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 132072 | 1720        | 22.39               | 23.20               | 1.205                  | 0.02             | 0.402                  | 0.484                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 132072 | 1720        | 22.63               | 23.20               | 1.140                  | -0.04            | 0.119                  | 0.136                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 132072 | 1720        | 22.39               | 23.20               | 1.205                  | 0.01             | 0.128                  | 0.154                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132072 | 1720        | 22.63               | 23.20               | 1.140                  | 0.05             | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 132072 | 1720        | 22.39               | 23.20               | 1.205                  | 0                | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 132072 | 1720        | 22.63               | 23.20               | 1.140                  | 0.06             | 0.532                  | 0.607                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 132072 | 1720        | 22.39               | 23.20               | 1.205                  | -0.04            | 0.568                  | 0.684                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 132322 | 1745        | 22.31               | 23.20               | 1.227                  | 0.02             | 0.718                  | 0.881                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 132572 | 1770        | 22.30               | 23.20               | 1.230                  | 0.04             | 0.696                  | 0.856                  |
|          | LTE Band 66_Ant 1 | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | 4           | 132072 | 1720        | 22.25               | 23.20               | 1.245                  | -0.03            | 0.606                  | 0.754                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 132072 | 1720        | 24.60               | 25.20               | 1.148                  | -0.16            | 0.183                  | 0.210                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 132072 | 1720        | 23.45               | 24.20               | 1.189                  | -0.15            | 0.151                  | 0.179                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 132072 | 1720        | 24.60               | 25.20               | 1.148                  | -0.11            | 0.401                  | 0.460                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 132072 | 1720        | 23.45               | 24.20               | 1.189                  | 0.06             | 0.195                  | 0.232                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 132072 | 1720        | 24.60               | 25.20               | 1.148                  | 0                | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 132072 | 1720        | 23.45               | 24.20               | 1.189                  | 0                | 0.001                  | 0.001                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132072 | 1720        | 24.60               | 25.20               | 1.148                  | 0.11             | 0.363                  | 0.417                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132322 | 1745        | 24.48               | 25.20               | 1.180                  | -0.11            | 0.459                  | 0.542                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 132572 | 1770        | 24.19               | 25.20               | 1.262                  | -0.15            | 0.480                  | 0.606                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 132072 | 1720        | 23.45               | 24.20               | 1.189                  | -0.12            | 0.298                  | 0.354                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 132072 | 1720        | 24.60               | 25.20               | 1.148                  | -0.05            | 0.040                  | 0.046                  |
|          | LTE Band 66_Ant 5 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 132072 | 1720        | 23.45               | 24.20               | 1.189                  | -0.09            | 0.030                  | 0.036                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | 0.01             | 0.292                  | 0.336                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | 0.04             | 0.222                  | 0.256                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | 0.03             | 0.293                  | 0.337                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | -0.03            | 0.229                  | 0.264                  |
| 51       | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | -0.06            | 0.381                  | 0.438                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | 0.02             | 0.316                  | 0.364                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | 0.01             | 0.159                  | 0.183                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | -0.03            | 0.150                  | 0.173                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 133297 | 680.5       | 24.79               | 25.40               | 1.151                  | 0.05             | 0.240                  | 0.276                  |
|          | LTE Band 71_Ant 0 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 133297 | 680.5       | 23.78               | 24.40               | 1.153                  | 0                | 0.194                  | 0.224                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 133297 | 680.5       | 24.92               | 25.40               | 1.117                  | 0.02             | 0.221                  | 0.247                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 133297 | 680.5       | 23.96               | 24.40               | 1.107                  | 0                | 0.182                  | 0.201                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 133297 | 680.5       | 24.92               | 25.40               | 1.117                  | -0.13            | 0.223                  | 0.249                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 133297 | 680.5       | 23.96               | 24.40               | 1.107                  | 0.05             | 0.184                  | 0.204                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 133297 | 680.5       | 24.92               | 25.40               | 1.117                  | -0.03            | 0.210                  | 0.235                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 133297 | 680.5       | 23.96               | 24.40               | 1.107                  | 0.01             | 0.167                  | 0.185                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 133297 | 680.5       | 24.92               | 25.40               | 1.117                  | 0.04             | 0.169                  | 0.189                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 133297 | 680.5       | 23.96               | 24.40               | 1.107                  | -0.02            | 0.140                  | 0.155                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 4           | 133297 | 680.5       | 24.92               | 25.40               | 1.117                  | 0.05             | 0.119                  | 0.133                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 4           | 133297 | 680.5       | 23.96               | 24.40               | 1.107                  | -0.07            | 0.080                  | 0.089                  |



## &lt;TDD LTE SAR&gt;

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | 0.02             | 0.455                  | 0.526                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 4           | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | 0                | 0.290                  | 0.330                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | 0.05             | 0.527                  | 0.609                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 39750       | 2506        | 24.29               | 25.40               | 1.291                  | 62.9         | 1.006                     | -0.01            | 0.557                  | 0.724                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 40620       | 2593        | 24.59               | 25.40               | 1.205                  | 62.9         | 1.006                     | 0.07             | 0.617                  | 0.748                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 41055       | 2636.5      | 24.54               | 25.40               | 1.219                  | 62.9         | 1.006                     | 0                | 0.639                  | 0.784                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 41490       | 2680        | 24.58               | 25.40               | 1.208                  | 62.9         | 1.006                     | 0.1              | 0.500                  | 0.608                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 4           | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | 0.05             | 0.332                  | 0.378                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | 0.01             | 0.028                  | 0.032                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Left Side     | 10mm     | 4           | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | 0                | 0.023                  | 0.026                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | 0.07             | 0.550                  | 0.635                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 39750       | 2506        | 24.29               | 25.40               | 1.291                  | 62.9         | 1.006                     | -0.03            | 0.644                  | 0.837                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 40620       | 2593        | 24.59               | 25.40               | 1.205                  | 62.9         | 1.006                     | -0.02            | 0.693                  | 0.840                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 41055       | 2636.5      | 24.54               | 25.40               | 1.219                  | 62.9         | 1.006                     | 0.05             | 0.613                  | 0.752                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 41490       | 2680        | 24.58               | 25.40               | 1.208                  | 62.9         | 1.006                     | -0.07            | 0.400                  | 0.486                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Right Side    | 10mm     | 4           | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | 0.05             | 0.368                  | 0.419                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 100     | 0         | Right Side    | 10mm     | 4           | 40185       | 2549.5      | 22.84               | 23.40               | 1.138                  | 62.9         | 1.006                     | 0.08             | 0.379                  | 0.434                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 40185       | 2549.5      | 24.80               | 25.40               | 1.148                  | 62.9         | 1.006                     | -0.1             | 0.149                  | 0.172                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 50        | Bottom Side   | 10mm     | 4           | 40185       | 2549.5      | 22.86               | 23.40               | 1.132                  | 62.9         | 1.006                     | 0.09             | 0.086                  | 0.098                  |
|          | LTE Band 41 HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 40620       | 2593        | 26.13               | 26.90               | 1.194                  | 42.9         | 1.009                     | -0.05            | 0.666                  | 0.802                  |
|          | LTE Band 41 HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 39750       | 2506        | 25.84               | 26.90               | 1.276                  | 42.9         | 1.009                     | 0.03             | 0.618                  | 0.796                  |
|          | LTE Band 41 HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 40185       | 2549.5      | 26.38               | 26.90               | 1.127                  | 42.9         | 1.009                     | -0.02            | 0.528                  | 0.601                  |
|          | LTE Band 41 HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 41055       | 2636.5      | 25.99               | 26.90               | 1.233                  | 42.9         | 1.009                     | 0.01             | 0.578                  | 0.719                  |
|          | LTE Band 41 HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 41490       | 2680        | 26.08               | 26.90               | 1.208                  | 42.9         | 1.009                     | -0.07            | 0.386                  | 0.470                  |
|          | LTE Band 41C_Ant 2     | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 40620+40422 | 2593        | 23.58               | 23.90               | 1.076                  | 62.9         | 1.006                     | 0.07             | 0.539                  | 0.584                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 40185       | 2549.5      | 20.58               | 20.70               | 1.028                  | 62.9         | 1.006                     | 0.02             | 0.367                  | 0.380                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 40185       | 2549.5      | 20.55               | 20.70               | 1.035                  | 62.9         | 1.006                     | 0                | 0.364                  | 0.379                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 40185       | 2549.5      | 20.58               | 20.70               | 1.028                  | 62.9         | 1.006                     | 0.05             | 0.412                  | 0.426                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 40185       | 2549.5      | 20.55               | 20.70               | 1.035                  | 62.9         | 1.006                     | -0.03            | 0.405                  | 0.422                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 40185       | 2549.5      | 20.58               | 20.70               | 1.028                  | 62.9         | 1.006                     | 0.02             | 0.058                  | 0.060                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 40185       | 2549.5      | 20.55               | 20.70               | 1.035                  | 62.9         | 1.006                     | 0                | 0.054                  | 0.056                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 40185       | 2549.5      | 20.58               | 20.70               | 1.028                  | 62.9         | 1.006                     | 0.01             | 0.001                  | 0.001                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 40185       | 2549.5      | 20.55               | 20.70               | 1.035                  | 62.9         | 1.006                     | 0.07             | 0.001                  | 0.001                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 40185       | 2549.5      | 20.58               | 20.70               | 1.028                  | 62.9         | 1.006                     | -0.05            | 0.668                  | 0.691                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 39750       | 2506        | 19.92               | 20.70               | 1.197                  | 62.9         | 1.006                     | 0.01             | 0.640                  | 0.771                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 40620       | 2593        | 20.10               | 20.70               | 1.148                  | 62.9         | 1.006                     | 0.1              | 0.707                  | 0.817                  |
| 52       | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 41055       | 2636.5      | 19.83               | 20.70               | 1.222                  | 62.9         | 1.006                     | 0.11             | 0.725                  | 0.891                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 41490       | 2680        | 20.27               | 20.70               | 1.104                  | 62.9         | 1.006                     | 0.09             | 0.688                  | 0.764                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 40185       | 2549.5      | 20.55               | 20.70               | 1.035                  | 62.9         | 1.006                     | -0.08            | 0.673                  | 0.701                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 39750       | 2506        | 19.93               | 20.70               | 1.194                  | 62.9         | 1.006                     | 0.06             | 0.616                  | 0.740                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 40620       | 2593        | 20.13               | 20.70               | 1.140                  | 62.9         | 1.006                     | -0.04            | 0.681                  | 0.781                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 41055       | 2636.5      | 19.81               | 20.70               | 1.227                  | 62.9         | 1.006                     | 0.02             | 0.697                  | 0.861                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 41490       | 2680        | 20.19               | 20.70               | 1.125                  | 62.9         | 1.006                     | 0.01             | 0.666                  | 0.753                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10mm     | 4           | 40185       | 2549.5      | 20.55               | 20.70               | 1.035                  | 62.9         | 1.006                     | -0.03            | 0.656                  | 0.683                  |
|          | LTE Band 41 HPUE_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 41055       | 2636.5      | 20.95               | 22.30               | 1.365                  | 42.9         | 1.009                     | -0.18            | 0.579                  | 0.797                  |
|          | LTE Band 41 HPUE_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 39750       | 2506        | 21.06               | 22.30               | 1.330                  | 42.9         | 1.009                     | -0.02            | 0.516                  | 0.693                  |
|          | LTE Band 41 HPUE_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 40185       | 2549.5      | 21.70               | 22.30               | 1.148                  | 42.9         | 1.009                     | 0.07             | 0.544                  | 0.630                  |
|          | LTE Band 41 HPUE_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 40620       | 2593        | 21.24               | 22.30               | 1.276                  | 42.9         | 1.009                     | -0.03            | 0.574                  | 0.739                  |
|          | LTE Band 41 HPUE_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 41490       | 2680        | 21.48               | 22.30               | 1.208                  | 42.9         | 1.009                     | 0.02             | 0.551                  | 0.671                  |
|          | LTE Band 41C_Ant 0     | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 40620+40422 | 2593        | 19.10               | 20.70               | 1.445                  | 62.9         | 1.006                     | 0.06             | 0.534                  | 0.776                  |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 56640 | 3690        | 23.69               | 24.30               | 1.151                  | 62.9         | 1.006                     | 0.01             | 0.523                  | 0.605                  |
| 53       | LTE Band 48_Ant 6 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 55340 | 3560        | 23.68               | 24.30               | 1.153                  | 62.9         | 1.006                     | 0.03             | 0.709                  | 0.823                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 55830 | 3609        | 23.56               | 24.30               | 1.186                  | 62.9         | 1.006                     | 0                | 0.639                  | 0.762                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 56150 | 3641        | 23.41               | 24.30               | 1.227                  | 62.9         | 1.006                     | -0.02            | 0.604                  | 0.746                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 56640 | 3690        | 23.61               | 24.30               | 1.172                  | 62.9         | 1.006                     | 0.05             | 0.501                  | 0.591                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 4           | 56640 | 3690        | 23.56               | 24.30               | 1.186                  | 62.9         | 1.006                     | 0.01             | 0.491                  | 0.586                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 55830 | 3609        | 23.56               | 24.30               | 1.186                  | 62.9         | 1.006                     | -0.03            | 0.352                  | 0.420                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 55830 | 3609        | 23.55               | 24.30               | 1.189                  | 62.9         | 1.006                     | -0.04            | 0.351                  | 0.420                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 56640 | 3690        | 23.69               | 24.30               | 1.151                  | 62.9         | 1.006                     | -0.01            | 0.459                  | 0.531                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 56640 | 3690        | 23.61               | 24.30               | 1.172                  | 62.9         | 1.006                     | 0.05             | 0.460                  | 0.542                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 56640 | 3690        | 23.69               | 24.30               | 1.151                  | 62.9         | 1.006                     | 0.01             | 0.001                  | 0.001                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 56640 | 3690        | 23.61               | 24.30               | 1.172                  | 62.9         | 1.006                     | 0.1              | 0.001                  | 0.001                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 56640 | 3690        | 23.69               | 24.30               | 1.151                  | 62.9         | 1.006                     | 0.08             | 0.166                  | 0.192                  |
|          | LTE Band 48_Ant 6 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 56640 | 3690        | 23.61               | 24.30               | 1.172                  | 62.9         | 1.006                     | -0.09            | 0.164                  | 0.193                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 56640 | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | 0.02             | 0.406                  | 0.505                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 55340 | 3560        | 23.15               | 24.80               | 1.462                  | 62.9         | 1.006                     | -0.03            | 0.366                  | 0.538                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 55830 | 3609        | 23.41               | 24.80               | 1.377                  | 62.9         | 1.006                     | 0.01             | 0.282                  | 0.391                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 4           | 56150 | 3641        | 23.59               | 24.80               | 1.321                  | 62.9         | 1.006                     | -0.03            | 0.347                  | 0.461                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 4           | 56640 | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | 0.05             | 0.316                  | 0.398                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 4           | 56640 | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | -0.04            | 0.264                  | 0.328                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 4           | 56640 | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | 0.1              | 0.223                  | 0.281                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 4           | 56640 | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | 0.08             | 0.083                  | 0.103                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 4           | 56640 | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | -0.01            | 0.068                  | 0.086                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 4           | 56640 | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | 0.05             | 0.182                  | 0.226                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 56640 | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | 0.07             | 0.133                  | 0.168                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 4           | 56640 | 3690        | 23.88               | 24.80               | 1.236                  | 62.9         | 1.006                     | -0.1             | 0.303                  | 0.377                  |
|          | LTE Band 48_Ant 7 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 56640 | 3690        | 22.82               | 23.80               | 1.253                  | 62.9         | 1.006                     | 0.05             | 0.260                  | 0.328                  |

**<5G NR SAR>**

| Plot No. | Band         | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Front         | 10mm     | 4           | 376000 | 1880        | 20.07               | 20.40               | 1.079                  | 0.01             | 0.483                  | 0.521                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Front         | 10mm     | 4           | 376000 | 1880        | 19.85               | 20.40               | 1.135                  | 0                | 0.479                  | 0.544                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Back          | 10mm     | 4           | 376000 | 1880        | 20.07               | 20.40               | 1.079                  | -0.07            | 0.401                  | 0.433                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Back          | 10mm     | 4           | 376000 | 1880        | 19.85               | 20.40               | 1.135                  | 0.1              | 0.411                  | 0.466                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Side     | 10mm     | 4           | 376000 | 1880        | 20.07               | 20.40               | 1.079                  | 0.02             | 0.138                  | 0.149                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Side     | 10mm     | 4           | 376000 | 1880        | 19.85               | 20.40               | 1.135                  | 0.06             | 0.137                  | 0.155                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Side    | 10mm     | 4           | 376000 | 1880        | 20.07               | 20.40               | 1.079                  | -0.07            | 0.001                  | 0.001                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Side    | 10mm     | 4           | 376000 | 1880        | 19.85               | 20.40               | 1.135                  | 0.08             | 0.001                  | 0.001                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Top Side      | 10mm     | 4           | 376000 | 1880        | 20.07               | 20.40               | 1.079                  | -0.05            | 0.723                  | 0.780                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Top Side      | 10mm     | 4           | 372000 | 1860        | 20.06               | 20.40               | 1.081                  | 0.02             | 0.584                  | 0.632                  |
| 54       | FR1 n2_Ant 1 | 20M      | BPSK       | 1       | 53        | Top Side      | 10mm     | 4           | 380000 | 1900        | 20.05               | 20.40               | 1.084                  | 0                | 0.803                  | 0.870                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 50      | 28        | Top Side      | 10mm     | 4           | 376000 | 1880        | 19.85               | 20.40               | 1.135                  | 0.03             | 0.655                  | 0.743                  |
|          | FR1 n2_Ant 1 | 20M      | BPSK       | 100     | 0         | Top Side      | 10mm     | 4           | 376000 | 1880        | 19.84               | 20.40               | 1.138                  | -0.04            | 0.679                  | 0.772                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Front         | 10mm     | 4           | 376000 | 1880        | 22.80               | 23.80               | 1.259                  | 0.03             | 0.251                  | 0.316                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Front         | 10mm     | 4           | 376000 | 1880        | 22.58               | 23.80               | 1.324                  | -0.05            | 0.254                  | 0.336                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Back          | 10mm     | 4           | 376000 | 1880        | 22.80               | 23.80               | 1.259                  | 0                | 0.364                  | 0.458                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Back          | 10mm     | 4           | 376000 | 1880        | 22.58               | 23.80               | 1.324                  | 0.01             | 0.363                  | 0.481                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Left Side     | 10mm     | 4           | 376000 | 1880        | 22.80               | 23.80               | 1.259                  | 0                | 0.001                  | 0.001                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Left Side     | 10mm     | 4           | 376000 | 1880        | 22.58               | 23.80               | 1.324                  | 0                | 0.001                  | 0.001                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Right Side    | 10mm     | 4           | 376000 | 1880        | 22.80               | 23.80               | 1.259                  | -0.1             | 0.469                  | 0.590                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Right Side    | 10mm     | 4           | 372000 | 1860        | 22.78               | 23.80               | 1.265                  | -0.06            | 0.562                  | 0.711                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Right Side    | 10mm     | 4           | 380000 | 1900        | 22.76               | 23.80               | 1.271                  | -0.07            | 0.428                  | 0.544                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Right Side    | 10mm     | 4           | 376000 | 1880        | 22.58               | 23.80               | 1.324                  | 0.01             | 0.437                  | 0.579                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 1       | 53        | Top Side      | 10mm     | 4           | 376000 | 1880        | 22.80               | 23.80               | 1.259                  | 0.04             | 0.057                  | 0.072                  |
|          | FR1 n2_Ant 5 | 20M      | BPSK       | 50      | 28        | Top Side      | 10mm     | 4           | 376000 | 1880        | 22.58               | 23.80               | 1.324                  | 0.09             | 0.064                  | 0.085                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Front         | 10mm     | 4           | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | -0.03            | 0.279                  | 0.331                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Front         | 10mm     | 4           | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | -0.1             | 0.270                  | 0.328                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Back          | 10mm     | 4           | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | -0.1             | 0.309                  | 0.366                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Back          | 10mm     | 4           | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | -0.04            | 0.299                  | 0.364                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Left Side     | 10mm     | 4           | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | 0.03             | 0.218                  | 0.258                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Left Side     | 10mm     | 4           | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | -0.02            | 0.215                  | 0.261                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Right Side    | 10mm     | 4           | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | 0.06             | 0.081                  | 0.096                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Right Side    | 10mm     | 4           | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | 0.04             | 0.082                  | 0.100                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 1       | 53        | Bottom Side   | 10mm     | 4           | 167300 | 836.5       | 24.66               | 25.40               | 1.186                  | -0.1             | 0.305                  | 0.362                  |
|          | FR1 n5_Ant 0 | 20M      | BPSK       | 50      | 28        | Bottom Side   | 10mm     | 4           | 167300 | 836.5       | 24.55               | 25.40               | 1.216                  | -0.05            | 0.299                  | 0.364                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Front         | 10mm     | 4           | 167300 | 836.5       | 24.68               | 25.40               | 1.180                  | -0.04            | 0.320                  | 0.378                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Front         | 10mm     | 4           | 167300 | 836.5       | 24.59               | 25.40               | 1.205                  | 0.06             | 0.312                  | 0.376                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Back          | 10mm     | 4           | 167300 | 836.5       | 24.68               | 25.40               | 1.180                  | 0.03             | 0.449                  | 0.530                  |
| 55       | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Back          | 10mm     | 4           | 167300 | 836.5       | 24.59               | 25.40               | 1.205                  | -0.14            | 0.454                  | 0.547                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Side     | 10mm     | 4           | 167300 | 836.5       | 24.68               | 25.40               | 1.180                  | 0.04             | 0.176                  | 0.208                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Side     | 10mm     | 4           | 167300 | 836.5       | 24.59               | 25.40               | 1.205                  | -0.1             | 0.172                  | 0.207                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Side    | 10mm     | 4           | 167300 | 836.5       | 24.68               | 25.40               | 1.180                  | -0.04            | 0.232                  | 0.274                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Side    | 10mm     | 4           | 167300 | 836.5       | 24.59               | 25.40               | 1.205                  | 0.07             | 0.233                  | 0.281                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 1       | 53        | Top Side      | 10mm     | 4           | 167300 | 836.5       | 24.68               | 25.40               | 1.180                  | -0.06            | 0.211                  | 0.249                  |
|          | FR1 n5_Ant 1 | 20M      | BPSK       | 50      | 28        | Top Side      | 10mm     | 4           | 167300 | 836.5       | 24.59               | 25.40               | 1.205                  | -0.09            | 0.243                  | 0.293                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 507000 | 2535        | 20.50               | 21.60               | 1.288                  | 0.02             | 0.360                  | 0.464                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Front         | 10mm     | 4           | 507000 | 2535        | 20.38               | 21.60               | 1.324                  | 0                | 0.320                  | 0.424                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 507000 | 2535        | 20.50               | 21.60               | 1.288                  | 0.05             | 0.402                  | 0.518                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Back          | 10mm     | 4           | 507000 | 2535        | 20.38               | 21.60               | 1.324                  | -0.01            | 0.363                  | 0.481                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 507000 | 2535        | 20.50               | 21.60               | 1.288                  | 0.06             | 0.062                  | 0.080                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Left Side     | 10mm     | 4           | 507000 | 2535        | 20.38               | 21.60               | 1.324                  | -0.03            | 0.026                  | 0.034                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 507000 | 2535        | 20.50               | 21.60               | 1.288                  | -0.04            | 0.644                  | 0.830                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Right Side    | 10mm     | 4           | 507000 | 2535        | 20.38               | 21.60               | 1.324                  | -0.02            | 0.565                  | 0.748                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 270     | 0         | Right Side    | 10mm     | 4           | 507000 | 2535        | 20.35               | 21.60               | 1.334                  | 0.1              | 0.527                  | 0.703                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 507000 | 2535        | 20.50               | 21.60               | 1.288                  | 0.07             | 0.124                  | 0.160                  |
|          | FR1 n7_Ant 2  | 50M      | BPSK       | 135     | 68        | Bottom Side   | 10mm     | 4           | 507000 | 2535        | 20.38               | 21.60               | 1.324                  | 0.06             | 0.114                  | 0.151                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 507000 | 2535        | 17.31               | 17.70               | 1.094                  | 0.01             | 0.467                  | 0.511                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Front         | 10mm     | 4           | 507000 | 2535        | 17.27               | 17.70               | 1.104                  | -0.02            | 0.418                  | 0.462                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 507000 | 2535        | 17.31               | 17.70               | 1.094                  | -0.06            | 0.482                  | 0.527                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Back          | 10mm     | 4           | 507000 | 2535        | 17.27               | 17.70               | 1.104                  | -0.1             | 0.471                  | 0.520                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 507000 | 2535        | 17.31               | 17.70               | 1.094                  | 0.03             | 0.068                  | 0.074                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Left Side     | 10mm     | 4           | 507000 | 2535        | 17.27               | 17.70               | 1.104                  | 0.05             | 0.107                  | 0.118                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 507000 | 2535        | 17.31               | 17.70               | 1.094                  | -0.15            | 0.045                  | 0.049                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Right Side    | 10mm     | 4           | 507000 | 2535        | 17.27               | 17.70               | 1.104                  | -0.16            | 0.072                  | 0.079                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 507000 | 2535        | 17.31               | 17.70               | 1.094                  | -0.17            | 0.802                  | 0.877                  |
| 56       | FR1 n7_Ant 0  | 50M      | BPSK       | 135     | 68        | Bottom Side   | 10mm     | 4           | 507000 | 2535        | 17.27               | 17.70               | 1.104                  | -0.19            | 0.802                  | 0.885                  |
|          | FR1 n7_Ant 0  | 50M      | BPSK       | 270     | 0         | Bottom Side   | 10mm     | 4           | 507000 | 2535        | 17.23               | 17.70               | 1.114                  | 0.11             | 0.774                  | 0.862                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Front         | 10mm     | 4           | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | 0.01             | 0.333                  | 0.387                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Front         | 10mm     | 4           | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | 0.03             | 0.319                  | 0.373                  |
| 57       | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Back          | 10mm     | 4           | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | -0.08            | 0.380                  | 0.441                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Back          | 10mm     | 4           | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | -0.15            | 0.354                  | 0.414                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Left Side     | 10mm     | 4           | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | 0.1              | 0.333                  | 0.387                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Left Side     | 10mm     | 4           | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | 0.04             | 0.309                  | 0.361                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Right Side    | 10mm     | 4           | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | -0.18            | 0.144                  | 0.167                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Right Side    | 10mm     | 4           | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | 0.16             | 0.128                  | 0.150                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 77        | Bottom Side   | 10mm     | 4           | 141500 | 707.5       | 24.75               | 25.40               | 1.161                  | 0.01             | 0.329                  | 0.382                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Bottom Side   | 10mm     | 4           | 141500 | 707.5       | 24.72               | 25.40               | 1.169                  | 0.1              | 0.302                  | 0.353                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 141500 | 707.5       | 24.74               | 25.40               | 1.164                  | 0.03             | 0.255                  | 0.297                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Front         | 10mm     | 4           | 141500 | 707.5       | 24.73               | 25.40               | 1.167                  | 0.08             | 0.254                  | 0.296                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 141500 | 707.5       | 24.74               | 25.40               | 1.164                  | -0.16            | 0.301                  | 0.350                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Back          | 10mm     | 4           | 141500 | 707.5       | 24.73               | 25.40               | 1.167                  | -0.14            | 0.304                  | 0.355                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 141500 | 707.5       | 24.74               | 25.40               | 1.164                  | -0.18            | 0.228                  | 0.265                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Left Side     | 10mm     | 4           | 141500 | 707.5       | 24.73               | 25.40               | 1.167                  | -0.05            | 0.246                  | 0.287                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 141500 | 707.5       | 24.74               | 25.40               | 1.164                  | -0.13            | 0.195                  | 0.227                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Right Side    | 10mm     | 4           | 141500 | 707.5       | 24.73               | 25.40               | 1.167                  | 0.17             | 0.210                  | 0.245                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Top Side      | 10mm     | 4           | 141500 | 707.5       | 24.74               | 25.40               | 1.164                  | 0.07             | 0.132                  | 0.154                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Top Side      | 10mm     | 4           | 141500 | 707.5       | 24.73               | 25.40               | 1.167                  | 0.08             | 0.187                  | 0.218                  |

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Front         | 10mm     | 4           | 158600 | 793         | 24.92               | 25.40               | 1.117                  | -0.1             | 0.487                  | 0.544                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Front         | 10mm     | 4           | 158600 | 793         | 24.79               | 25.40               | 1.151                  | -0.12            | 0.370                  | 0.426                  |
| 58       | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Back          | 10mm     | 4           | 158600 | 793         | 24.92               | 25.40               | 1.117                  | 0.08             | 0.544                  | 0.608                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Back          | 10mm     | 4           | 158600 | 793         | 24.79               | 25.40               | 1.151                  | -0.1             | 0.441                  | 0.508                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Left Side     | 10mm     | 4           | 158600 | 793         | 24.92               | 25.40               | 1.117                  | -0.08            | 0.486                  | 0.543                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Left Side     | 10mm     | 4           | 158600 | 793         | 24.79               | 25.40               | 1.151                  | -0.01            | 0.400                  | 0.460                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Right Side    | 10mm     | 4           | 158600 | 793         | 24.92               | 25.40               | 1.117                  | -0.06            | 0.202                  | 0.226                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Right Side    | 10mm     | 4           | 158600 | 793         | 24.79               | 25.40               | 1.151                  | -0.04            | 0.162                  | 0.186                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 26        | Bottom Side   | 10mm     | 4           | 158600 | 793         | 24.92               | 25.40               | 1.117                  | -0.16            | 0.507                  | 0.566                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 10mm     | 4           | 158600 | 793         | 24.79               | 25.40               | 1.151                  | -0.07            | 0.409                  | 0.471                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Front         | 10mm     | 4           | 158600 | 793         | 24.96               | 25.40               | 1.107                  | -0.01            | 0.224                  | 0.248                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Front         | 10mm     | 4           | 158600 | 793         | 24.83               | 25.40               | 1.140                  | -0.06            | 0.180                  | 0.205                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Back          | 10mm     | 4           | 158600 | 793         | 24.96               | 25.40               | 1.107                  | -0.08            | 0.283                  | 0.313                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Back          | 10mm     | 4           | 158600 | 793         | 24.83               | 25.40               | 1.140                  | -0.1             | 0.228                  | 0.260                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Left Side     | 10mm     | 4           | 158600 | 793         | 24.96               | 25.40               | 1.107                  | -0.04            | 0.202                  | 0.224                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Left Side     | 10mm     | 4           | 158600 | 793         | 24.83               | 25.40               | 1.140                  | -0.16            | 0.171                  | 0.195                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Right Side    | 10mm     | 4           | 158600 | 793         | 24.96               | 25.40               | 1.107                  | -0.16            | 0.168                  | 0.186                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Right Side    | 10mm     | 4           | 158600 | 793         | 24.83               | 25.40               | 1.140                  | -0.13            | 0.145                  | 0.165                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 26        | Top Side      | 10mm     | 4           | 158600 | 793         | 24.96               | 25.40               | 1.107                  | -0.03            | 0.171                  | 0.189                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Top Side      | 10mm     | 4           | 158600 | 793         | 24.83               | 25.40               | 1.140                  | -0.05            | 0.131                  | 0.149                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Front         | 10mm     | 4           | 376500 | 1882.5      | 22.27               | 23.30               | 1.268                  | 0.02             | 0.379                  | 0.480                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Front         | 10mm     | 4           | 376500 | 1882.5      | 22.23               | 23.30               | 1.279                  | 0                | 0.387                  | 0.495                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Back          | 10mm     | 4           | 376500 | 1882.5      | 22.27               | 23.30               | 1.268                  | -0.15            | 0.641                  | 0.813                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Back          | 10mm     | 4           | 376500 | 1882.5      | 22.23               | 23.30               | 1.279                  | -0.01            | 0.575                  | 0.736                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 216     | 0         | Back          | 10mm     | 4           | 376500 | 1882.5      | 22.26               | 23.30               | 1.271                  | 0.02             | 0.542                  | 0.689                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Left Side     | 10mm     | 4           | 376500 | 1882.5      | 22.27               | 23.30               | 1.268                  | 0.06             | 0.084                  | 0.106                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Left Side     | 10mm     | 4           | 376500 | 1882.5      | 22.23               | 23.30               | 1.279                  | -0.03            | 0.059                  | 0.075                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Right Side    | 10mm     | 4           | 376500 | 1882.5      | 22.27               | 23.30               | 1.268                  | 0.08             | 0.551                  | 0.698                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Right Side    | 10mm     | 4           | 376500 | 1882.5      | 22.23               | 23.30               | 1.279                  | 0.02             | 0.593                  | 0.759                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 108       | Bottom Side   | 10mm     | 4           | 376500 | 1882.5      | 22.27               | 23.30               | 1.268                  | 0.02             | 0.169                  | 0.214                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Bottom Side   | 10mm     | 4           | 376500 | 1882.5      | 22.23               | 23.30               | 1.279                  | 0.1              | 0.127                  | 0.162                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Front         | 10mm     | 4           | 376500 | 1882.5      | 18.58               | 18.90               | 1.076                  | 0                | 0.422                  | 0.454                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Front         | 10mm     | 4           | 376500 | 1882.5      | 18.43               | 18.90               | 1.114                  | 0.15             | 0.422                  | 0.470                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Back          | 10mm     | 4           | 376500 | 1882.5      | 18.58               | 18.90               | 1.076                  | -0.05            | 0.384                  | 0.413                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Back          | 10mm     | 4           | 376500 | 1882.5      | 18.43               | 18.90               | 1.114                  | 0.01             | 0.368                  | 0.410                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Left Side     | 10mm     | 4           | 376500 | 1882.5      | 18.58               | 18.90               | 1.076                  | 0.02             | 0.084                  | 0.090                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Left Side     | 10mm     | 4           | 376500 | 1882.5      | 18.43               | 18.90               | 1.114                  | -0.03            | 0.076                  | 0.085                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Right Side    | 10mm     | 4           | 376500 | 1882.5      | 18.58               | 18.90               | 1.076                  | 0                | 0.046                  | 0.050                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Right Side    | 10mm     | 4           | 376500 | 1882.5      | 18.43               | 18.90               | 1.114                  | 0.05             | 0.056                  | 0.062                  |
| 59       | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 108       | Bottom Side   | 10mm     | 4           | 376500 | 1882.5      | 18.58               | 18.90               | 1.076                  | -0.06            | 0.799                  | 0.860                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Bottom Side   | 10mm     | 4           | 376500 | 1882.5      | 18.43               | 18.90               | 1.114                  | -0.01            | 0.771                  | 0.859                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 216     | 0         | Bottom Side   | 10mm     | 4           | 376500 | 1882.5      | 18.37               | 18.90               | 1.130                  | 0.1              | 0.758                  | 0.856                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 462000 | 2310        | 21.28               | 22.00               | 1.180                  | 0.01             | 0.466                  | 0.550                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Front         | 10mm     | 4           | 462000 | 2310        | 21.26               | 22.00               | 1.186                  | 0.03             | 0.442                  | 0.524                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 462000 | 2310        | 21.28               | 22.00               | 1.180                  | 0.07             | 0.491                  | 0.580                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Back          | 10mm     | 4           | 462000 | 2310        | 21.26               | 22.00               | 1.186                  | -0.1             | 0.477                  | 0.566                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 462000 | 2310        | 21.28               | 22.00               | 1.180                  | -0.03            | 0.054                  | 0.064                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Left Side     | 10mm     | 4           | 462000 | 2310        | 21.26               | 22.00               | 1.186                  | 0.03             | 0.043                  | 0.051                  |
| 60       | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 462000 | 2310        | 21.28               | 22.00               | 1.180                  | 0.01             | 0.707                  | 0.834                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Right Side    | 10mm     | 4           | 462000 | 2310        | 21.26               | 22.00               | 1.186                  | 0                | 0.691                  | 0.819                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 50      | 0         | Right Side    | 10mm     | 4           | 462000 | 2310        | 21.27               | 22.00               | 1.183                  | 0.01             | 0.698                  | 0.826                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 462000 | 2310        | 21.28               | 22.00               | 1.180                  | 0.1              | 0.176                  | 0.208                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 10mm     | 4           | 462000 | 2310        | 21.26               | 22.00               | 1.186                  | 0.03             | 0.176                  | 0.209                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Front         | 10mm     | 4           | 462000 | 2310        | 17.14               | 17.80               | 1.164                  | 0.02             | 0.362                  | 0.421                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Front         | 10mm     | 4           | 462000 | 2310        | 17.06               | 17.80               | 1.186                  | 0.09             | 0.350                  | 0.415                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Back          | 10mm     | 4           | 462000 | 2310        | 17.14               | 17.80               | 1.164                  | 0.11             | 0.422                  | 0.491                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Back          | 10mm     | 4           | 462000 | 2310        | 17.06               | 17.80               | 1.186                  | 0.13             | 0.375                  | 0.445                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Left Side     | 10mm     | 4           | 462000 | 2310        | 17.14               | 17.80               | 1.164                  | 0.03             | 0.047                  | 0.055                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Left Side     | 10mm     | 4           | 462000 | 2310        | 17.06               | 17.80               | 1.186                  | -0.15            | 0.052                  | 0.062                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Right Side    | 10mm     | 4           | 462000 | 2310        | 17.14               | 17.80               | 1.164                  | -0.11            | 0.045                  | 0.052                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Right Side    | 10mm     | 4           | 462000 | 2310        | 17.06               | 17.80               | 1.186                  | -0.05            | 0.053                  | 0.063                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 26        | Bottom Side   | 10mm     | 4           | 462000 | 2310        | 17.14               | 17.80               | 1.164                  | -0.11            | 0.715                  | 0.832                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 10mm     | 4           | 462000 | 2310        | 17.06               | 17.80               | 1.186                  | -0.19            | 0.645                  | 0.765                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 50      | 0         | Bottom Side   | 10mm     | 4           | 462000 | 2310        | 17.07               | 17.80               | 1.183                  | -0.03            | 0.655                  | 0.775                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Front         | 10mm     | 4           | 349000 | 1745        | 22.28               | 23.30               | 1.265                  | 0.01             | 0.362                  | 0.458                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Front         | 10mm     | 4           | 349000 | 1745        | 22.18               | 23.30               | 1.294                  | 0                | 0.378                  | 0.489                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Back          | 10mm     | 4           | 349000 | 1745        | 22.28               | 23.30               | 1.265                  | -0.02            | 0.530                  | 0.670                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Back          | 10mm     | 4           | 349000 | 1745        | 22.18               | 23.30               | 1.294                  | -0.06            | 0.477                  | 0.617                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Left Side     | 10mm     | 4           | 349000 | 1745        | 22.28               | 23.30               | 1.265                  | 0.01             | 0.072                  | 0.091                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Left Side     | 10mm     | 4           | 349000 | 1745        | 22.18               | 23.30               | 1.294                  | 0.02             | 0.081                  | 0.105                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Right Side    | 10mm     | 4           | 349000 | 1745        | 22.28               | 23.30               | 1.265                  | -0.04            | 0.627                  | 0.793                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Right Side    | 10mm     | 4           | 349000 | 1745        | 22.18               | 23.30               | 1.294                  | -0.04            | 0.643                  | 0.832                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 216     | 0         | Right Side    | 10mm     | 4           | 349000 | 1745        | 22.17               | 23.30               | 1.297                  | -0.03            | 0.640                  | 0.830                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 1       | 108       | Bottom Side   | 10mm     | 4           | 349000 | 1745        | 22.28               | 23.30               | 1.265                  | -0.01            | 0.241                  | 0.305                  |
|          | FR1 n66_Ant 2 | 40M      | BPSK       | 108     | 54        | Bottom Side   | 10mm     | 4           | 349000 | 1745        | 22.18               | 23.30               | 1.294                  | 0.09             | 0.245                  | 0.317                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Front         | 10mm     | 4           | 349000 | 1745        | 17.14               | 18.00               | 1.219                  | 0.01             | 0.409                  | 0.499                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Front         | 10mm     | 4           | 349000 | 1745        | 17.13               | 18.00               | 1.222                  | 0.05             | 0.407                  | 0.497                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Back          | 10mm     | 4           | 349000 | 1745        | 17.14               | 18.00               | 1.219                  | -0.03            | 0.384                  | 0.468                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Back          | 10mm     | 4           | 349000 | 1745        | 17.13               | 18.00               | 1.222                  | 0.02             | 0.377                  | 0.461                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Left Side     | 10mm     | 4           | 349000 | 1745        | 17.14               | 18.00               | 1.219                  | 0                | 0.070                  | 0.085                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Left Side     | 10mm     | 4           | 349000 | 1745        | 17.13               | 18.00               | 1.222                  | 0.05             | 0.071                  | 0.087                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Right Side    | 10mm     | 4           | 349000 | 1745        | 17.14               | 18.00               | 1.219                  | -0.04            | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Right Side    | 10mm     | 4           | 349000 | 1745        | 17.13               | 18.00               | 1.222                  | -0.07            | 0.001                  | 0.001                  |
| 61       | FR1 n66_Ant 0 | 40M      | BPSK       | 1       | 108       | Bottom Side   | 10mm     | 4           | 349000 | 1745        | 17.14               | 18.00               | 1.219                  | -0.02            | 0.717                  | 0.874                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 108     | 54        | Bottom Side   | 10mm     | 4           | 349000 | 1745        | 17.13               | 18.00               | 1.222                  | 0.1              | 0.666                  | 0.814                  |
|          | FR1 n66_Ant 0 | 40M      | BPSK       | 216     | 0         | Bottom Side   | 10mm     | 4           | 349000 | 1745        | 17.04               | 18.00               | 1.247                  | 0.02             | 0.678                  | 0.846                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Front         | 10mm     | 4           | 349000 | 1745        | 22.31               | 23.60               | 1.346                  | 0.02             | 0.420                  | 0.565                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Front         | 10mm     | 4           | 349000 | 1745        | 22.23               | 23.60               | 1.371                  | -0.01            | 0.392                  | 0.537                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Back          | 10mm     | 4           | 349000 | 1745        | 22.31               | 23.60               | 1.346                  | 0.05             | 0.380                  | 0.511                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Back          | 10mm     | 4           | 349000 | 1745        | 22.23               | 23.60               | 1.371                  | 0                | 0.364                  | 0.499                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Left Side     | 10mm     | 4           | 349000 | 1745        | 22.31               | 23.60               | 1.346                  | 0.06             | 0.118                  | 0.159                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Left Side     | 10mm     | 4           | 349000 | 1745        | 22.23               | 23.60               | 1.371                  | -0.03            | 0.116                  | 0.159                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Right Side    | 10mm     | 4           | 349000 | 1745        | 22.31               | 23.60               | 1.346                  | 0.08             | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Right Side    | 10mm     | 4           | 349000 | 1745        | 22.23               | 23.60               | 1.371                  | -0.04            | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 108       | Top Side      | 10mm     | 4           | 349000 | 1745        | 22.31               | 23.60               | 1.346                  | 0.14             | 0.586                  | 0.789                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Top Side      | 10mm     | 4           | 349000 | 1745        | 22.23               | 23.60               | 1.371                  | 0.02             | 0.547                  | 0.750                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Front         | 10mm     | 4           | 349000 | 1745        | 24.28               | 25.20               | 1.236                  | 0.04             | 0.427                  | 0.528                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Front         | 10mm     | 4           | 349000 | 1745        | 24.13               | 25.20               | 1.279                  | 0.01             | 0.410                  | 0.525                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Back          | 10mm     | 4           | 349000 | 1745        | 24.28               | 25.20               | 1.236                  | 0.05             | 0.493                  | 0.609                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Back          | 10mm     | 4           | 349000 | 1745        | 24.13               | 25.20               | 1.279                  | -0.13            | 0.479                  | 0.613                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Left Side     | 10mm     | 4           | 349000 | 1745        | 24.28               | 25.20               | 1.236                  | -0.01            | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Left Side     | 10mm     | 4           | 349000 | 1745        | 24.13               | 25.20               | 1.279                  | 0                | 0.001                  | 0.001                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Right Side    | 10mm     | 4           | 349000 | 1745        | 24.28               | 25.20               | 1.236                  | 0.02             | 0.617                  | 0.763                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Right Side    | 10mm     | 4           | 349000 | 1745        | 24.13               | 25.20               | 1.279                  | -0.06            | 0.604                  | 0.773                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 1       | 108       | Top Side      | 10mm     | 4           | 349000 | 1745        | 24.28               | 25.20               | 1.236                  | 0.01             | 0.059                  | 0.073                  |
|          | FR1 n66_Ant 5 | 40M      | BPSK       | 108     | 54        | Top Side      | 10mm     | 4           | 349000 | 1745        | 24.13               | 25.20               | 1.279                  | -0.03            | 0.054                  | 0.069                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Front         | 10mm     | 4           | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | 0.05             | 0.281                  | 0.317                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Front         | 10mm     | 4           | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | 0.06             | 0.265                  | 0.307                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Back          | 10mm     | 4           | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | -0.16            | 0.297                  | 0.335                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Back          | 10mm     | 4           | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | -0.05            | 0.287                  | 0.333                  |
| 62       | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Left Side     | 10mm     | 4           | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | -0.02            | 0.363                  | 0.409                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Left Side     | 10mm     | 4           | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | 0.03             | 0.348                  | 0.403                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Right Side    | 10mm     | 4           | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | 0.05             | 0.159                  | 0.179                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Right Side    | 10mm     | 4           | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | 0.08             | 0.154                  | 0.178                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 1       | 53        | Bottom Side   | 10mm     | 4           | 136100 | 680.5       | 24.88               | 25.40               | 1.127                  | -0.16            | 0.254                  | 0.286                  |
|          | FR1 n71_Ant 0 | 20M      | BPSK       | 50      | 28        | Bottom Side   | 10mm     | 4           | 136100 | 680.5       | 24.76               | 25.40               | 1.159                  | -0.19            | 0.237                  | 0.275                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Front         | 10mm     | 4           | 136100 | 680.5       | 24.85               | 25.40               | 1.135                  | 0.02             | 0.225                  | 0.255                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Front         | 10mm     | 4           | 136100 | 680.5       | 24.72               | 25.40               | 1.169                  | -0.01            | 0.217                  | 0.254                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Back          | 10mm     | 4           | 136100 | 680.5       | 24.85               | 25.40               | 1.135                  | -0.12            | 0.243                  | 0.276                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Back          | 10mm     | 4           | 136100 | 680.5       | 24.72               | 25.40               | 1.169                  | 0.08             | 0.235                  | 0.275                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Left Side     | 10mm     | 4           | 136100 | 680.5       | 24.85               | 25.40               | 1.135                  | -0.04            | 0.234                  | 0.266                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Left Side     | 10mm     | 4           | 136100 | 680.5       | 24.72               | 25.40               | 1.169                  | 0.06             | 0.223                  | 0.261                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Right Side    | 10mm     | 4           | 136100 | 680.5       | 24.85               | 25.40               | 1.135                  | -0.18            | 0.153                  | 0.174                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Right Side    | 10mm     | 4           | 136100 | 680.5       | 24.72               | 25.40               | 1.169                  | 0.01             | 0.147                  | 0.172                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 53        | Top Side      | 10mm     | 4           | 136100 | 680.5       | 24.85               | 25.40               | 1.135                  | 0.03             | 0.132                  | 0.150                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Top Side      | 10mm     | 4           | 136100 | 680.5       | 24.72               | 25.40               | 1.169                  | 0.09             | 0.115                  | 0.134                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Antenna | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|---------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | TX0     | 4           | 518598 | 2592.99     | 22.30               | 22.70               | 1.096                  | 0.02             | 0.529                  | 0.580                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | TX0     | 4           | 518598 | 2592.99     | 21.55               | 22.70               | 1.303                  | 0                | 0.396                  | 0.516                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | TX0     | 4           | 518598 | 2592.99     | 22.30               | 22.70               | 1.096                  | -0.09            | 0.622                  | 0.682                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | TX0     | 4           | 518598 | 2592.99     | 21.55               | 22.70               | 1.303                  | 0.05             | 0.496                  | 0.646                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | TX0     | 4           | 518598 | 2592.99     | 22.30               | 22.70               | 1.096                  | -0.01            | 0.001                  | 0.001                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | TX0     | 4           | 518598 | 2592.99     | 21.55               | 22.70               | 1.303                  | 0.1              | 0.001                  | 0.001                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | TX0     | 4           | 518598 | 2592.99     | 22.30               | 22.70               | 1.096                  | 0.08             | 0.690                  | 0.757                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | TX0     | 4           | 518598 | 2592.99     | 21.55               | 22.70               | 1.303                  | -0.06            | 0.613                  | 0.799                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 10mm     | TX0     | 4           | 518598 | 2592.99     | 22.30               | 22.70               | 1.096                  | -0.02            | 0.198                  | 0.217                  |
|          | FR1 n41_Ant 2 | 100M     | BPSK       | 135     | 69        | Bottom Side   | 10mm     | TX0     | 4           | 518598 | 2592.99     | 21.55               | 22.70               | 1.303                  | 0.07             | 0.142                  | 0.185                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | TX1     | 4           | 518598 | 2592.99     | 18.49               | 19.00               | 1.125                  | 0.03             | 0.422                  | 0.475                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | TX1     | 4           | 518598 | 2592.99     | 17.30               | 19.00               | 1.479                  | 0.08             | 0.310                  | 0.459                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | TX1     | 4           | 518598 | 2592.99     | 18.49               | 19.00               | 1.125                  | -0.11            | 0.410                  | 0.461                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | TX1     | 4           | 518598 | 2592.99     | 17.30               | 19.00               | 1.479                  | -0.15            | 0.314                  | 0.464                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | TX1     | 4           | 518598 | 2592.99     | 18.49               | 19.00               | 1.125                  | -0.1             | 0.055                  | 0.062                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | TX1     | 4           | 518598 | 2592.99     | 17.30               | 19.00               | 1.479                  | -0.13            | 0.038                  | 0.056                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | TX1     | 4           | 518598 | 2592.99     | 18.49               | 19.00               | 1.125                  | 0.05             | 0.048                  | 0.054                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | TX1     | 4           | 518598 | 2592.99     | 17.30               | 19.00               | 1.479                  | 0.1              | 0.036                  | 0.053                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 10mm     | TX1     | 4           | 518598 | 2592.99     | 18.49               | 19.00               | 1.125                  | -0.03            | 0.722                  | 0.812                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 135     | 69        | Bottom Side   | 10mm     | TX1     | 4           | 518598 | 2592.99     | 17.30               | 19.00               | 1.479                  | 0.11             | 0.543                  | 0.803                  |
|          | FR1 n41_Ant 0 | 100M     | BPSK       | 270     | 0         | Bottom Side   | 10mm     | TX1     | 4           | 518598 | 2592.99     | 17.42               | 19.00               | 1.439                  | 0.02             | 0.563                  | 0.810                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.51               | 23                  | 1.119                  | -0.18            | 0.470                  | 0.526                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.89               | 23                  | 1.026                  | 0.05             | 0.428                  | 0.439                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.51               | 23                  | 1.119                  | 0.02             | 0.451                  | 0.505                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.89               | 23                  | 1.026                  | -0.01            | 0.390                  | 0.400                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.51               | 23                  | 1.119                  | 0.03             | 0.717                  | 0.803                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.89               | 23                  | 1.026                  | 0.04             | 0.765                  | 0.785                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 270     | 0         | Left Side     | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.88               | 23                  | 1.028                  | -0.06            | 0.705                  | 0.725                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.51               | 23                  | 1.119                  | 0.08             | 0.001                  | 0.001                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.89               | 23                  | 1.026                  | 0.07             | 0.001                  | 0.001                  |
| 63       | FR1 n41_Ant 1 | 100M     | BPSK       | 1       | 1         | Top Side      | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.51               | 23                  | 1.119                  | -0.06            | 0.798                  | 0.893                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 135     | 69        | Top Side      | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.89               | 23                  | 1.026                  | 0.1              | 0.682                  | 0.699                  |
|          | FR1 n41_Ant 1 | 100M     | BPSK       | 270     | 0         | Top Side      | 10mm     | Sub TX0 | 4           | 518598 | 2592.99     | 22.88               | 23                  | 1.028                  | 0.03             | 0.646                  | 0.664                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.57               | 22.3                | 1.183                  | 0.02             | 0.437                  | 0.517                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.26               | 22.3                | 1.271                  | 0                | 0.324                  | 0.412                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.57               | 22.3                | 1.183                  | 0.05             | 0.423                  | 0.500                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.26               | 22.3                | 1.271                  | -0.01            | 0.303                  | 0.385                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.57               | 22.3                | 1.183                  | 0.03             | 0.052                  | 0.062                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.26               | 22.3                | 1.271                  | -0.06            | 0.034                  | 0.043                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.57               | 22.3                | 1.183                  | -0.13            | 0.750                  | 0.887                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.26               | 22.3                | 1.271                  | 0.1              | 0.604                  | 0.767                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 270     | 0         | Right Side    | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.26               | 22.3                | 1.271                  | -0.02            | 0.548                  | 0.696                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 1       | 1         | Top Side      | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.57               | 22.3                | 1.183                  | 0.07             | 0.100                  | 0.118                  |
|          | FR1 n41_Ant 5 | 100M     | BPSK       | 135     | 69        | Top Side      | 10mm     | Sub TX1 | 4           | 518598 | 2592.99     | 21.26               | 22.3                | 1.271                  | 0.03             | 0.088                  | 0.112                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 641666 | 3624.99     | 22.28               | 22.70               | 1.102                  | 100          | 1.000                     | 0.01             | 0.745                  | 0.821                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 637000 | 3555        | 22.06               | 22.70               | 1.159                  | 100          | 1.000                     | 0.13             | 0.731                  | 0.847                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 646332 | 3694.98     | 22.23               | 22.70               | 1.114                  | 100          | 1.000                     | 0.15             | 0.733                  | 0.817                  |
| 64       | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Front         | 10mm     | 4           | 641666 | 3624.99     | 22.27               | 22.70               | 1.104                  | 100          | 1.000                     | -0.12            | 0.811                  | 0.895                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Front         | 10mm     | 4           | 637000 | 3555        | 22.22               | 22.70               | 1.117                  | 100          | 1.000                     | -0.08            | 0.785                  | 0.877                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Front         | 10mm     | 4           | 646332 | 3694.98     | 22.20               | 22.70               | 1.122                  | 100          | 1.000                     | -0.17            | 0.792                  | 0.889                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 24      | 0         | Front         | 10mm     | 4           | 641666 | 3624.99     | 22.26               | 22.70               | 1.107                  | 100          | 1.000                     | 0.02             | 0.793                  | 0.878                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 641666 | 3624.99     | 22.28               | 22.70               | 1.102                  | 100          | 1.000                     | -0.03            | 0.605                  | 0.666                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 637000 | 3555        | 22.06               | 22.70               | 1.159                  | 100          | 1.000                     | 0.15             | 0.592                  | 0.686                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 646332 | 3694.98     | 22.23               | 22.70               | 1.114                  | 100          | 1.000                     | 0.13             | 0.593                  | 0.661                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Back          | 10mm     | 4           | 641666 | 3624.99     | 22.27               | 22.70               | 1.104                  | 100          | 1.000                     | 0.1              | 0.533                  | 0.588                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 641666 | 3624.99     | 22.28               | 22.70               | 1.102                  | 100          | 1.000                     | -0.02            | 0.667                  | 0.735                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 637000 | 3555        | 22.06               | 22.70               | 1.159                  | 100          | 1.000                     | 0.13             | 0.647                  | 0.750                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 646332 | 3694.98     | 22.23               | 22.70               | 1.114                  | 100          | 1.000                     | -0.08            | 0.646                  | 0.720                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Left Side     | 10mm     | 4           | 641666 | 3624.99     | 22.27               | 22.70               | 1.104                  | 100          | 1.000                     | 0.04             | 0.666                  | 0.735                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Left Side     | 10mm     | 4           | 637000 | 3555        | 22.22               | 22.70               | 1.117                  | 100          | 1.000                     | 0.19             | 0.658                  | 0.735                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Left Side     | 10mm     | 4           | 646332 | 3694.98     | 22.20               | 22.70               | 1.122                  | 100          | 1.000                     | 0.11             | 0.646                  | 0.725                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 641666 | 3624.99     | 22.28               | 22.70               | 1.102                  | 100          | 1.000                     | 0.05             | 0.001                  | 0.001                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Right Side    | 10mm     | 4           | 641666 | 3624.99     | 22.27               | 22.70               | 1.104                  | 100          | 1.000                     | -0.04            | 0.001                  | 0.001                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 641666 | 3624.99     | 22.28               | 22.70               | 1.102                  | 100          | 1.000                     | 0.07             | 0.227                  | 0.250                  |
|          | FR1 n48_Ant 6 | 10M      | BPSK       | 12      | 6         | Bottom Side   | 10mm     | 4           | 641666 | 3624.99     | 22.27               | 22.70               | 1.104                  | 100          | 1.000                     | 0.03             | 0.226                  | 0.250                  |
|          | FR1 n48_Ant 6 | 40M      | BPSK       | 50      | 25        | Front         | 10mm     | 4           | 641666 | 3624.99     | 22.27               | 22.70               | 1.104                  | 100          | 1.000                     | 0.01             | 0.801                  | 0.884                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 637000 | 3555        | 21.00               | 21.00               | 1.000                  | 100          | 1.000                     | 0.02             | 0.491                  | 0.491                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Front         | 10mm     | 4           | 637000 | 3555        | 20.98               | 21.00               | 1.005                  | 100          | 1.000                     | -0.09            | 0.548                  | 0.551                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 637000 | 3555        | 21.00               | 21.00               | 1.000                  | 100          | 1.000                     | 0                | 0.336                  | 0.336                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Back          | 10mm     | 4           | 637000 | 3555        | 20.98               | 21.00               | 1.005                  | 100          | 1.000                     | 0.05             | 0.298                  | 0.299                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 637000 | 3555        | 21.00               | 21.00               | 1.000                  | 100          | 1.000                     | -0.01            | 0.030                  | 0.030                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Left Side     | 10mm     | 4           | 637000 | 3555        | 20.98               | 21.00               | 1.005                  | 100          | 1.000                     | 0.02             | 0.043                  | 0.043                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 637000 | 3555        | 21.00               | 21.00               | 1.000                  | 100          | 1.000                     | -0.03            | 0.167                  | 0.167                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Right Side    | 10mm     | 4           | 637000 | 3555        | 20.98               | 21.00               | 1.005                  | 100          | 1.000                     | 0.04             | 0.180                  | 0.181                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 637000 | 3555        | 21.00               | 21.00               | 1.000                  | 100          | 1.000                     | 0.05             | 0.308                  | 0.308                  |
|          | FR1 n48_Ant 7 | 10M      | BPSK       | 12      | 6         | Bottom Side   | 10mm     | 4           | 637000 | 3555        | 20.98               | 21.00               | 1.005                  | 100          | 1.000                     | -0.07            | 0.272                  | 0.273                  |
|          | FR1 n48_Ant 7 | 40M      | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 641666 | 3624.99     | 20.96               | 21.00               | 1.009                  | 100          | 1.000                     | 0.1              | 0.402                  | 0.406                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Front         | 10mm     | 4           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | 0.01             | 0.166                  | 0.182                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Front         | 10mm     | 4           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | 0                | 0.148                  | 0.169                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Back          | 10mm     | 4           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | -0.02            | 0.065                  | 0.071                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Back          | 10mm     | 4           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | -0.07            | 0.058                  | 0.066                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | -0.04            | 0.087                  | 0.096                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Left Side     | 10mm     | 4           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | -0.1             | 0.085                  | 0.097                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | 0                | 0.001                  | 0.001                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Right Side    | 10mm     | 4           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | 0                | 0.001                  | 0.001                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 1       | 1         | Top Side      | 10mm     | 4           | 641666 | 3624.99     | 20.09               | 20.50               | 1.099                  | 100          | 1.000                     | -0.03            | 0.090                  | 0.099                  |
|          | FR1 n48_Ant 1 | 10M      | QPSK       | 12      | 6         | Top Side      | 10mm     | 4           | 641666 | 3624.99     | 19.92               | 20.50               | 1.143                  | 100          | 1.000                     | 0.03             | 0.084                  | 0.096                  |
|          | FR1 n48_Ant 1 | 40M      | QPSK       | 53      | 26        | Front         | 10mm     | 4           | 641666 | 3624.99     | 19.87               | 20.00               | 1.030                  | 100          | 1.000                     | 0.01             | 0.151                  | 0.156                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Front         | 10mm     | 4           | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | -0.12            | 0.141                  | 0.149                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Front         | 10mm     | 4           | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | 0.05             | 0.140                  | 0.151                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Back          | 10mm     | 4           | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | -0.05            | 0.126                  | 0.133                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Back          | 10mm     | 4           | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | -0.11            | 0.111                  | 0.120                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | 0                | 0.001                  | 0.001                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Left Side     | 10mm     | 4           | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | 0                | 0.001                  | 0.001                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | -0.11            | 0.240                  | 0.254                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Right Side    | 10mm     | 4           | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | 0.12             | 0.250                  | 0.270                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 1       | 1         | Top Side      | 10mm     | 4           | 641666 | 3624.99     | 18.96               | 19.20               | 1.057                  | 100          | 1.000                     | 0                | 0.001                  | 0.001                  |
|          | FR1 n48_Ant 5 | 10M      | QPSK       | 12      | 6         | Top Side      | 10mm     | 4           | 641666 | 3624.99     | 18.87               | 19.20               | 1.080                  | 100          | 1.000                     | 0                | 0.001                  | 0.001                  |
|          | FR1 n48_Ant 5 | 40M      | QPSK       | 53      | 26        | Right Side    | 10mm     | 4           | 641666 | 3624.99     | 19.17               | 19.20               | 1.007                  | 100          | 1.000                     | 0.19             | 0.245                  | 0.247                  |

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 656000 | 3840        | 22.44               | 22.90               | 1.112                  | 0.14             | 0.488                  | 0.543                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | 4           | 656000 | 3840        | 22.08               | 22.90               | 1.208                  | 0.05             | 0.413                  | 0.499                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 656000 | 3840        | 22.44               | 22.90               | 1.112                  | -0.06            | 0.306                  | 0.340                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | 4           | 656000 | 3840        | 22.08               | 22.90               | 1.208                  | 0.03             | 0.292                  | 0.353                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 656000 | 3840        | 22.44               | 22.90               | 1.112                  | 0.07             | 0.661                  | 0.735                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | 4           | 656000 | 3840        | 22.08               | 22.90               | 1.208                  | 0.1              | 0.554                  | 0.669                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 656000 | 3840        | 22.44               | 22.90               | 1.112                  | -0.02            | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | 4           | 656000 | 3840        | 22.08               | 22.90               | 1.208                  | 0.03             | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 656000 | 3840        | 22.44               | 22.90               | 1.112                  | -0.01            | 0.164                  | 0.182                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Bottom Side   | 10mm     | 4           | 656000 | 3840        | 22.08               | 22.90               | 1.208                  | 0.02             | 0.149                  | 0.180                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 633332 | 3499.98     | 22.24               | 22.90               | 1.164                  | 0.01             | 0.560                  | 0.652                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | 4           | 633332 | 3499.98     | 21.79               | 22.90               | 1.291                  | -0.01            | 0.558                  | 0.721                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 633332 | 3499.98     | 22.24               | 22.90               | 1.164                  | 0.05             | 0.446                  | 0.519                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | 4           | 633332 | 3499.98     | 21.79               | 22.90               | 1.291                  | -0.03            | 0.373                  | 0.482                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 633332 | 3499.98     | 22.24               | 22.90               | 1.164                  | -0.04            | 0.348                  | 0.405                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | 4           | 633332 | 3499.98     | 21.79               | 22.90               | 1.291                  | 0.01             | 0.302                  | 0.390                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 22.24               | 22.90               | 1.164                  | 0.06             | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 21.79               | 22.90               | 1.291                  | -0.08            | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 633332 | 3499.98     | 22.24               | 22.90               | 1.164                  | 0.07             | 0.159                  | 0.185                  |
|          | FR1 n77_Ant 6 | 100M     | BPSK       | 135     | 69        | Bottom Side   | 10mm     | 4           | 633332 | 3499.98     | 21.79               | 22.90               | 1.291                  | 0.1              | 0.143                  | 0.185                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | -0.02            | 0.705                  | 0.828                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | 0.01             | 0.521                  | 0.696                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 270     | 0         | Front         | 10mm     | 4           | 656000 | 3840        | 21.85               | 23.00               | 1.303                  | 0                | 0.492                  | 0.641                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | 0.05             | 0.440                  | 0.517                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | -0.03            | 0.344                  | 0.460                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | 0.04             | 0.078                  | 0.092                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | 0.06             | 0.071                  | 0.095                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | -0.05            | 0.276                  | 0.324                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | 0.07             | 0.257                  | 0.344                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 656000 | 3840        | 22.80               | 23.50               | 1.175                  | 0.1              | 0.355                  | 0.417                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Bottom Side   | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.50               | 1.337                  | -0.08            | 0.270                  | 0.361                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | -0.1             | 0.395                  | 0.558                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | 4           | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | -0.15            | 0.520                  | 0.783                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | 0.03             | 0.309                  | 0.436                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | 4           | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | -0.04            | 0.372                  | 0.560                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | 0.06             | 0.034                  | 0.048                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | 4           | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | -0.03            | 0.022                  | 0.033                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | -0.05            | 0.183                  | 0.258                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | 0                | 0.192                  | 0.289                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 10mm     | 4           | 633332 | 3499.98     | 22.00               | 23.50               | 1.413                  | -0.04            | 0.329                  | 0.465                  |
|          | FR1 n77_Ant 7 | 100M     | BPSK       | 135     | 69        | Bottom Side   | 10mm     | 4           | 633332 | 3499.98     | 21.72               | 23.50               | 1.507                  | -0.06            | 0.274                  | 0.413                  |



| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 656000 | 3840        | 24.57               | 25.4                | 1.211                  | -0.12            | 0.615                  | 0.745                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | 4           | 656000 | 3840        | 23.65               | 25.4                | 1.496                  | -0.03            | 0.546                  | 0.817                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 270     | 0         | Front         | 10mm     | 4           | 656000 | 3840        | 23.73               | 24.9                | 1.309                  | 0.05             | 0.543                  | 0.711                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 656000 | 3840        | 24.57               | 25.4                | 1.211                  | 0.01             | 0.121                  | 0.146                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | 4           | 656000 | 3840        | 23.65               | 25.4                | 1.496                  | 0                | 0.095                  | 0.142                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 656000 | 3840        | 24.57               | 25.4                | 1.211                  | 0.02             | 0.169                  | 0.205                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | 4           | 656000 | 3840        | 23.65               | 25.4                | 1.496                  | -0.03            | 0.150                  | 0.224                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 656000 | 3840        | 24.57               | 25.4                | 1.211                  | -0.05            | 0.100                  | 0.121                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | 4           | 656000 | 3840        | 23.65               | 25.4                | 1.496                  | 0.04             | 0.086                  | 0.129                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Top Side      | 10mm     | 4           | 656000 | 3840        | 24.57               | 25.4                | 1.211                  | 0.08             | 0.221                  | 0.268                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Top Side      | 10mm     | 4           | 656000 | 3840        | 23.65               | 25.4                | 1.496                  | 0.1              | 0.155                  | 0.232                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 633332 | 3499.98     | 24.44               | 25.4                | 1.247                  | -0.05            | 0.347                  | 0.433                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | 4           | 633332 | 3499.98     | 23.59               | 25.4                | 1.517                  | 0.01             | 0.264                  | 0.401                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 633332 | 3499.98     | 24.44               | 25.4                | 1.247                  | 0                | 0.249                  | 0.311                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | 4           | 633332 | 3499.98     | 23.59               | 25.4                | 1.517                  | 0.05             | 0.157                  | 0.238                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 633332 | 3499.98     | 24.44               | 25.4                | 1.247                  | -0.02            | 0.272                  | 0.339                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | 4           | 633332 | 3499.98     | 23.59               | 25.4                | 1.517                  | -0.04            | 0.188                  | 0.285                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 24.44               | 25.4                | 1.247                  | 0.03             | 0.060                  | 0.075                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 23.59               | 25.4                | 1.517                  | 0.06             | 0.057                  | 0.086                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 1       | 1         | Top Side      | 10mm     | 4           | 633332 | 3499.98     | 24.44               | 25.4                | 1.247                  | -0.1             | 0.153                  | 0.191                  |
|          | FR1 n77_Ant 1 | 100M     | BPSK       | 135     | 69        | Top Side      | 10mm     | 4           | 633332 | 3499.98     | 23.59               | 25.4                | 1.517                  | 0.08             | 0.128                  | 0.194                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 656000 | 3840        | 22.54               | 23.4                | 1.219                  | 0.05             | 0.380                  | 0.463                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.4                | 1.306                  | 0.01             | 0.319                  | 0.417                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 656000 | 3840        | 22.54               | 23.4                | 1.219                  | -0.02            | 0.353                  | 0.430                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.4                | 1.306                  | 0.01             | 0.275                  | 0.359                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 656000 | 3840        | 22.54               | 23.4                | 1.219                  | 0.06             | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.4                | 1.306                  | -0.07            | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 656000 | 3840        | 22.54               | 23.4                | 1.219                  | 0.06             | 0.681                  | 0.830                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.4                | 1.306                  | 0.08             | 0.608                  | 0.794                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 270     | 0         | Right Side    | 10mm     | 4           | 656000 | 3840        | 22.15               | 23.4                | 1.334                  | -0.1             | 0.540                  | 0.720                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Top Side      | 10mm     | 4           | 656000 | 3840        | 22.54               | 23.4                | 1.219                  | -0.06            | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Top Side      | 10mm     | 4           | 656000 | 3840        | 22.24               | 23.4                | 1.306                  | 0.04             | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Front         | 10mm     | 4           | 633332 | 3499.98     | 22.32               | 23.4                | 1.282                  | 0.03             | 0.422                  | 0.541                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Front         | 10mm     | 4           | 633332 | 3499.98     | 22                  | 23.4                | 1.380                  | 0.05             | 0.343                  | 0.473                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Back          | 10mm     | 4           | 633332 | 3499.98     | 22.32               | 23.4                | 1.282                  | -0.04            | 0.310                  | 0.398                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Back          | 10mm     | 4           | 633332 | 3499.98     | 22                  | 23.4                | 1.380                  | 0.02             | 0.268                  | 0.370                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Left Side     | 10mm     | 4           | 633332 | 3499.98     | 22.32               | 23.4                | 1.282                  | -0.07            | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Left Side     | 10mm     | 4           | 633332 | 3499.98     | 22                  | 23.4                | 1.380                  | 0.08             | 0.001                  | 0.001                  |
| 65       | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 22.32               | 23.4                | 1.282                  | 0.1              | 0.653                  | 0.837                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 22                  | 23.4                | 1.380                  | 0.1              | 0.553                  | 0.763                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 270     | 0         | Right Side    | 10mm     | 4           | 633332 | 3499.98     | 21.79               | 23.4                | 1.449                  | 0.09             | 0.519                  | 0.752                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 1       | 1         | Top Side      | 10mm     | 4           | 633332 | 3499.98     | 22.32               | 23.4                | 1.282                  | -0.06            | 0.001                  | 0.001                  |
|          | FR1 n77_Ant 5 | 100M     | BPSK       | 135     | 69        | Top Side      | 10mm     | 4           | 633332 | 3499.98     | 22                  | 23.4                | 1.380                  | 0.03             | 0.001                  | 0.001                  |

**<WLAN SAR>**

| Plot No. | Band       | Mode          | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 4      | 7           | 11  | 2462        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | 0.1              | 0.348                  | 0.356                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 4      | 7           | 11  | 2462        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | -0.13            | 0.435                  | 0.445                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 4      | 7           | 11  | 2462        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | -0.13            | 0.019                  | 0.019                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4      | 7           | 11  | 2462        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | 0.06             | 0.484                  | 0.495                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4      | 7           | 11  | 2462        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | 0.1              | 0.514                  | 0.526                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4      | 7           | 1   | 2412        | 20.75               | 21.00               | 1.059                  | 98.9         | 1.011                     | -0.04            | 0.569                  | 0.609                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4      | 7           | 6   | 2437        | 20.85               | 21.00               | 1.035                  | 98.9         | 1.011                     | -0.08            | 0.558                  | 0.584                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4      | 7           | 12  | 2467        | 20.75               | 21.00               | 1.059                  | 98.9         | 1.011                     | -0.01            | 0.534                  | 0.572                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4      | 7           | 13  | 2472        | 20.75               | 21.00               | 1.059                  | 98.9         | 1.011                     | -0.05            | 0.575                  | 0.616                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 3      | 7           | 1   | 2412        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | -0.09            | 0.262                  | 0.268                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 3      | 7           | 1   | 2412        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | -0.14            | 0.303                  | 0.310                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 3      | 7           | 1   | 2412        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | -0.08            | 0.455                  | 0.465                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 3      | 7           | 1   | 2412        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | -0.03            | 0.017                  | 0.017                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 3      | 7           | 1   | 2412        | 20.95               | 21.00               | 1.012                  | 98.9         | 1.011                     | -0.08            | 0.047                  | 0.048                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 3      | 7           | 6   | 2437        | 20.75               | 21.00               | 1.059                  | 98.9         | 1.011                     | -0.04            | 0.475                  | 0.509                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 3      | 7           | 11  | 2462        | 20.75               | 21.00               | 1.059                  | 98.9         | 1.011                     | -0.05            | 0.531                  | 0.569                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 3      | 7           | 12  | 2467        | 20.55               | 21.00               | 1.109                  | 98.9         | 1.011                     | -0.06            | 0.576                  | 0.646                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 3      | 7           | 13  | 2472        | 20.55               | 21.00               | 1.109                  | 98.9         | 1.011                     | -0.04            | 0.533                  | 0.598                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Front         | 10mm     | Ant 4+3(4) | 7           | 1   | 2437        | 20.75               | 21.00               | 1.059                  | 93.4         | 1.071                     | -0.03            | 0.354                  | 0.402                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Front         | 10mm     | Ant 4+3(3) | 7           | 1   | 2437        | 19.75               | 21.00               | 1.334                  | 93.4         | 1.071                     | -0.03            | 0.211                  | 0.301                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Back          | 10mm     | Ant 4+3(4) | 7           | 6   | 2437        | 20.75               | 21.00               | 1.059                  | 93.4         | 1.071                     | 0.07             | 0.375                  | 0.425                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Back          | 10mm     | Ant 4+3(3) | 7           | 6   | 2437        | 19.75               | 21.00               | 1.334                  | 93.4         | 1.071                     | 0.07             | 0.231                  | 0.330                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Side     | 10mm     | Ant 4+3(3) | 7           | 6   | 2437        | 19.75               | 21.00               | 1.334                  | 93.4         | 1.071                     | -0.03            | 0.395                  | 0.564                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Right Side    | 10mm     | Ant 4+3(4) | 7           | 6   | 2437        | 20.75               | 21.00               | 1.059                  | 93.4         | 1.071                     | 0.09             | 0.442                  | 0.501                  |
| 66       | WLAN2.4GHz | 802.11g 6Mbps | Top Side      | 10mm     | Ant 4+3(4) | 7           | 6   | 2437        | 20.75               | 21.00               | 1.059                  | 93.4         | 1.071                     | -0.01            | 0.616                  | 0.699                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Top Side      | 10mm     | Ant 4+3(4) | 7           | 1   | 2412        | 20.00               | 20.00               | 1.000                  | 93.4         | 1.071                     | -0.06            | 0.449                  | 0.481                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Top Side      | 10mm     | Ant 4+3(4) | 7           | 11  | 2462        | 19.95               | 20.00               | 1.012                  | 93.4         | 1.071                     | -0.04            | 0.436                  | 0.472                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Top Side      | 10mm     | Ant 4+3(4) | 7           | 12  | 2467        | 18.25               | 18.50               | 1.059                  | 93.4         | 1.071                     | -0.02            | 0.265                  | 0.301                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Top Side      | 10mm     | Ant 4+3(4) | 7           | 13  | 2472        | 16.25               | 17.00               | 1.189                  | 93.4         | 1.071                     | -0.05            | 0.167                  | 0.213                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 4      | 8           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | 0.01             | 0.166                  | 0.174                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 4      | 8           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | 0.04             | 0.170                  | 0.178                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 4      | 8           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | -0.07            | 0.010                  | 0.010                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4      | 8           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | 0.17             | 0.230                  | 0.241                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4      | 8           | 6   | 2437        | 17.35               | 17.50               | 1.035                  | 98.9         | 1.011                     | 0.06             | 0.256                  | 0.268                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 3      | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | 0                | 0.133                  | 0.136                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 3      | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.11            | 0.141                  | 0.144                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 3      | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.04            | 0.222                  | 0.227                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 3      | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.01            | 0.006                  | 0.006                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 3      | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 98.9         | 1.011                     | -0.02            | 0.012                  | 0.012                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Front         | 10mm     | Ant 4+3(4) | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | -0.03            | 0.138                  | 0.150                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Front         | 10mm     | Ant 4+3(3) | 8           | 11  | 2462        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.03            | 0.124                  | 0.144                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Back          | 10mm     | Ant 4+3(4) | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | -0.13            | 0.174                  | 0.189                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Back          | 10mm     | Ant 4+3(3) | 8           | 11  | 2462        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.13            | 0.125                  | 0.145                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Left Side     | 10mm     | Ant 4+3(3) | 8           | 11  | 2462        | 17.15               | 17.50               | 1.084                  | 93.4         | 1.071                     | -0.07            | 0.229                  | 0.266                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Right Side    | 10mm     | Ant 4+3(4) | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | 0.07             | 0.187                  | 0.203                  |
|          | WLAN2.4GHz | 802.11g 6Mbps | Top Side      | 10mm     | Ant 4+3(4) | 8           | 11  | 2462        | 17.45               | 17.50               | 1.012                  | 93.4         | 1.071                     | 0.01             | 0.214                  | 0.232                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|---------------------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 67       | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(4) | 7           | 42  | 5210        | 14.40               | 15.00               | 1.148                  | 87.95        | 1.137                     | -0.01            | 0.048                  | 0.063                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(3) | 7           | 42  | 5210        | 13.30               | 15.00               | 1.479                  | 87.95        | 1.137                     | -0.01            | 0.128                  | 0.215                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(4) | 7           | 42  | 5210        | 14.40               | 15.00               | 1.148                  | 87.95        | 1.137                     | 0.13             | 0.005                  | 0.007                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(3) | 7           | 42  | 5210        | 13.30               | 15.00               | 1.479                  | 87.95        | 1.137                     | 0.13             | 0.085                  | 0.143                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 4+3(3) | 7           | 42  | 5210        | 13.30               | 15.00               | 1.479                  | 87.95        | 1.137                     | -0.12            | 0.363                  | 0.610                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 4+3(4) | 7           | 42  | 5210        | 14.40               | 15.00               | 1.148                  | 87.95        | 1.137                     | -0.15            | 0.040                  | 0.052                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(4) | 7           | 42  | 5210        | 14.40               | 15.00               | 1.148                  | 87.95        | 1.137                     | 0.14             | 0.019                  | 0.025                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(3) | 7           | 42  | 5210        | 13.30               | 15.00               | 1.479                  | 87.95        | 1.137                     | 0.14             | 0.019                  | 0.032                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(4) | 8/9         | 42  | 5210        | 12.90               | 13.00               | 1.023                  | 87.95        | 1.137                     | -0.06            | 0.017                  | 0.020                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(3) | 8/9         | 42  | 5210        | 11.60               | 13.00               | 1.380                  | 87.95        | 1.137                     | -0.06            | 0.088                  | 0.138                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(4) | 8/9         | 42  | 5210        | 12.90               | 13.00               | 1.023                  | 87.95        | 1.137                     | -0.04            | 0.007                  | 0.009                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(3) | 8/9         | 42  | 5210        | 11.60               | 13.00               | 1.380                  | 87.95        | 1.137                     | -0.04            | 0.038                  | 0.060                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 4+3(3) | 8/9         | 42  | 5210        | 11.60               | 13.00               | 1.380                  | 87.95        | 1.137                     | -0.14            | 0.216                  | 0.339                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 4+3(4) | 8/9         | 42  | 5210        | 12.90               | 13.00               | 1.023                  | 87.95        | 1.137                     | -0.04            | 0.019                  | 0.022                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(3) | 8/9         | 42  | 5210        | 11.60               | 13.00               | 1.380                  | 87.95        | 1.137                     | 0.01             | 0.027                  | 0.042                  |
| 68       | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(4) | 7           | 155 | 5775        | 18.20               | 18.50               | 1.072                  | 87.95        | 1.137                     | 0.11             | 0.162                  | 0.197                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(3) | 7           | 155 | 5775        | 17.70               | 18.50               | 1.202                  | 87.95        | 1.137                     | 0.11             | 0.306                  | 0.418                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(4) | 7           | 155 | 5775        | 18.20               | 18.50               | 1.072                  | 87.95        | 1.137                     | -0.13            | 0.113                  | 0.138                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(3) | 7           | 155 | 5775        | 17.70               | 18.50               | 1.202                  | 87.95        | 1.137                     | -0.13            | 0.089                  | 0.122                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 4+3(3) | 7           | 155 | 5775        | 17.70               | 18.50               | 1.202                  | 87.95        | 1.137                     | -0.09            | 0.452                  | 0.618                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 4+3(4) | 7           | 155 | 5775        | 18.20               | 18.50               | 1.072                  | 87.95        | 1.137                     | -0.06            | 0.091                  | 0.111                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(4) | 7           | 155 | 5775        | 18.20               | 18.50               | 1.072                  | 87.95        | 1.137                     | -0.03            | 0.138                  | 0.168                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(3) | 7           | 155 | 5775        | 17.70               | 18.50               | 1.202                  | 87.95        | 1.137                     | -0.03            | 0.084                  | 0.115                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(4) | 8           | 155 | 5775        | 16.20               | 16.50               | 1.072                  | 87.95        | 1.137                     | -0.19            | 0.061                  | 0.074                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(3) | 8           | 155 | 5775        | 16.00               | 16.50               | 1.122                  | 87.95        | 1.137                     | -0.19            | 0.182                  | 0.232                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(4) | 8           | 155 | 5775        | 16.20               | 16.50               | 1.072                  | 87.95        | 1.137                     | 0                | 0.077                  | 0.094                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(3) | 8           | 155 | 5775        | 16.00               | 16.50               | 1.122                  | 87.95        | 1.137                     | 0                | 0.058                  | 0.074                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 4+3(3) | 8           | 155 | 5775        | 16.00               | 16.50               | 1.122                  | 87.95        | 1.137                     | 0.19             | 0.275                  | 0.351                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 4+3(4) | 8           | 155 | 5775        | 16.20               | 16.50               | 1.072                  | 87.95        | 1.137                     | -0.12            | 0.047                  | 0.057                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(4) | 8           | 155 | 5775        | 16.20               | 16.50               | 1.072                  | 87.95        | 1.137                     | -0.07            | 0.067                  | 0.082                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(3) | 8           | 155 | 5775        | 16.00               | 16.50               | 1.122                  | 87.95        | 1.137                     | -0.07            | 0.057                  | 0.073                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(4) | 9           | 155 | 5775        | 16.20               | 17.50               | 1.349                  | 87.95        | 1.137                     | -0.19            | 0.061                  | 0.094                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+3(3) | 9           | 155 | 5775        | 16.00               | 17.50               | 1.413                  | 87.95        | 1.137                     | -0.19            | 0.182                  | 0.292                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(4) | 9           | 155 | 5775        | 16.20               | 17.50               | 1.349                  | 87.95        | 1.137                     | 0                | 0.077                  | 0.118                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+3(3) | 9           | 155 | 5775        | 16.00               | 17.50               | 1.413                  | 87.95        | 1.137                     | 0                | 0.058                  | 0.093                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 4+3(3) | 9           | 155 | 5775        | 16.00               | 17.50               | 1.413                  | 87.95        | 1.137                     | 0.19             | 0.275                  | 0.442                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 4+3(4) | 9           | 155 | 5775        | 16.20               | 17.50               | 1.349                  | 87.95        | 1.137                     | -0.12            | 0.047                  | 0.072                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(4) | 9           | 155 | 5775        | 16.20               | 17.50               | 1.349                  | 87.95        | 1.137                     | -0.07            | 0.067                  | 0.103                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+3(3) | 9           | 155 | 5775        | 16.00               | 17.50               | 1.413                  | 87.95        | 1.137                     | -0.07            | 0.057                  | 0.092                  |

**<Bluetooth SAR>**

| Plot No. | Band      | Mode  | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | 1Mbps | Front         | 10mm     | Ant 4      | 3           | 0   | 2402        | 19.64               | 20.00               | 1.087                  | 77.22        | 1.079                     | -0.07            | 0.253                  | 0.297                  |
|          | Bluetooth | 1Mbps | Back          | 10mm     | Ant 4      | 3           | 0   | 2402        | 19.64               | 20.00               | 1.087                  | 77.22        | 1.079                     | -0.13            | 0.335                  | 0.393                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 4      | 3           | 0   | 2402        | 19.64               | 20.00               | 1.087                  | 77.22        | 1.079                     | 0                | 0.001                  | 0.001                  |
|          | Bluetooth | 1Mbps | Right Side    | 10mm     | Ant 4      | 3           | 0   | 2402        | 19.64               | 20.00               | 1.087                  | 77.22        | 1.079                     | -0.11            | 0.261                  | 0.306                  |
| 69       | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4      | 3           | 0   | 2402        | 19.64               | 20.00               | 1.087                  | 77.22        | 1.079                     | -0.06            | 0.383                  | 0.449                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4      | 3           | 39  | 2441        | 19.57               | 20.00               | 1.104                  | 77.22        | 1.079                     | -0.02            | 0.273                  | 0.325                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4      | 3           | 78  | 2480        | 19.55               | 20.00               | 1.110                  | 77.22        | 1.079                     | -0.09            | 0.226                  | 0.271                  |
|          | Bluetooth | 1Mbps | Front         | 10mm     | Ant 3      | 3           | 0   | 2402        | 19.60               | 20.00               | 1.097                  | 77.22        | 1.079                     | -0.08            | 0.154                  | 0.182                  |
|          | Bluetooth | 1Mbps | Back          | 10mm     | Ant 3      | 3           | 0   | 2402        | 19.60               | 20.00               | 1.097                  | 77.22        | 1.079                     | -0.07            | 0.178                  | 0.211                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 3      | 3           | 0   | 2402        | 19.60               | 20.00               | 1.097                  | 77.22        | 1.079                     | -0.11            | 0.193                  | 0.228                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 3      | 3           | 39  | 2441        | 19.55               | 20.00               | 1.110                  | 77.22        | 1.079                     | 0.01             | 0.221                  | 0.265                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 3      | 3           | 78  | 2480        | 19.52               | 20.00               | 1.117                  | 77.22        | 1.079                     | -0.15            | 0.201                  | 0.242                  |
|          | Bluetooth | 1Mbps | Right Side    | 10mm     | Ant 3      | 3           | 0   | 2402        | 19.60               | 20.00               | 1.097                  | 77.22        | 1.079                     | -0.06            | 0.012                  | 0.014                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 3      | 3           | 0   | 2402        | 19.60               | 20.00               | 1.097                  | 77.22        | 1.079                     | 0                | 0.001                  | 0.001                  |
|          | Bluetooth | 1Mbps | Front         | 10mm     | Ant 4+3(4) | 3           | 0   | 2402        | 17.33               | 18.50               | 1.310                  | 77.22        | 1.079                     | 0.01             | 0.210                  | 0.297                  |
|          | Bluetooth | 1Mbps | Front         | 10mm     | Ant 4+3(3) | 3           | 0   | 2402        | 17.45               | 18.50               | 1.274                  | 77.22        | 1.079                     | 0.01             | 0.114                  | 0.157                  |
|          | Bluetooth | 1Mbps | Back          | 10mm     | Ant 4+3(4) | 3           | 0   | 2402        | 17.33               | 18.50               | 1.310                  | 77.22        | 1.079                     | -0.05            | 0.196                  | 0.277                  |
|          | Bluetooth | 1Mbps | Back          | 10mm     | Ant 4+3(3) | 3           | 0   | 2402        | 17.45               | 18.50               | 1.274                  | 77.22        | 1.079                     | -0.05            | 0.111                  | 0.153                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 4+3(4) | 3           | 0   | 2402        | 17.33               | 18.50               | 1.310                  | 77.22        | 1.079                     | 0.01             | 0.001                  | 0.001                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 4+3(3) | 3           | 0   | 2402        | 17.45               | 18.50               | 1.274                  | 77.22        | 1.079                     | 0.01             | 0.145                  | 0.199                  |
|          | Bluetooth | 1Mbps | Right Side    | 10mm     | Ant 4+3(4) | 3           | 0   | 2402        | 17.33               | 18.50               | 1.310                  | 77.22        | 1.079                     | -0.15            | 0.151                  | 0.213                  |
|          | Bluetooth | 1Mbps | Right Side    | 10mm     | Ant 4+3(3) | 3           | 0   | 2402        | 17.45               | 18.50               | 1.274                  | 77.22        | 1.079                     | -0.15            | 0.011                  | 0.015                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(4) | 3           | 0   | 2402        | 17.33               | 18.50               | 1.310                  | 77.22        | 1.079                     | -0.19            | 0.225                  | 0.318                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(3) | 3           | 0   | 2402        | 17.45               | 18.50               | 1.274                  | 77.22        | 1.079                     | -0.19            | 0.001                  | 0.001                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(4) | 3           | 39  | 2441        | 17.10               | 18.50               | 1.381                  | 77.22        | 1.079                     | 0.05             | 0.170                  | 0.253                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(3) | 3           | 39  | 2441        | 17.18               | 18.50               | 1.356                  | 77.22        | 1.079                     | 0.05             | 0.001                  | 0.001                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(4) | 3           | 78  | 2480        | 17.05               | 18.50               | 1.397                  | 77.22        | 1.079                     | -0.15            | 0.147                  | 0.222                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(3) | 3           | 78  | 2480        | 17.15               | 18.50               | 1.365                  | 77.22        | 1.079                     | -0.15            | 0.001                  | 0.001                  |

| Plot No. | Band      | Mode  | Test Position | Gap (mm) | Antenna    | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-------|---------------|----------|------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | 1Mbps | Front         | 10mm     | Ant 4      | 4           | 0   | 2402        | 16.51               | 17.00               | 1.119                  | 77.22        | 1.079                     | -0.07            | 0.130                  | 0.157                  |
|          | Bluetooth | 1Mbps | Back          | 10mm     | Ant 4      | 4           | 0   | 2402        | 16.51               | 17.00               | 1.119                  | 77.22        | 1.079                     | -0.03            | 0.148                  | 0.179                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 4      | 4           | 0   | 2402        | 16.51               | 17.00               | 1.119                  | 77.22        | 1.079                     | -0.06            | 0.002                  | 0.003                  |
|          | Bluetooth | 1Mbps | Right Side    | 10mm     | Ant 4      | 4           | 0   | 2402        | 16.51               | 17.00               | 1.119                  | 77.22        | 1.079                     | -0.06            | 0.146                  | 0.176                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4      | 4           | 0   | 2402        | 16.51               | 17.00               | 1.119                  | 77.22        | 1.079                     | -0.1             | 0.209                  | 0.252                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4      | 4           | 39  | 2441        | 16.21               | 17.00               | 1.199                  | 77.22        | 1.079                     | -0.02            | 0.171                  | 0.221                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4      | 4           | 78  | 2480        | 16.00               | 17.00               | 1.259                  | 77.22        | 1.079                     | -0.04            | 0.128                  | 0.174                  |
|          | Bluetooth | 1Mbps | Front         | 10mm     | Ant 3      | 4           | 0   | 2402        | 16.29               | 17.00               | 1.178                  | 77.22        | 1.079                     | 0.1              | 0.073                  | 0.093                  |
|          | Bluetooth | 1Mbps | Back          | 10mm     | Ant 3      | 4           | 0   | 2402        | 16.29               | 17.00               | 1.178                  | 77.22        | 1.079                     | -0.09            | 0.121                  | 0.154                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 3      | 4           | 0   | 2402        | 16.29               | 17.00               | 1.178                  | 77.22        | 1.079                     | 0.04             | 0.119                  | 0.151                  |
|          | Bluetooth | 1Mbps | Right Side    | 10mm     | Ant 3      | 4           | 0   | 2402        | 16.29               | 17.00               | 1.178                  | 77.22        | 1.079                     | 0.06             | 0.002                  | 0.003                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 3      | 4           | 0   | 2402        | 16.29               | 17.00               | 1.178                  | 77.22        | 1.079                     | -0.02            | 0.017                  | 0.022                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 3      | 4           | 39  | 2441        | 16.02               | 17.00               | 1.253                  | 77.22        | 1.079                     | 0.11             | 0.117                  | 0.158                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 3      | 4           | 78  | 2480        | 15.91               | 17.00               | 1.285                  | 77.22        | 1.079                     | -0.03            | 0.121                  | 0.168                  |
|          | Bluetooth | 1Mbps | Front         | 10mm     | Ant 4+3(4) | 4           | 0   | 2402        | 16.50               | 17.00               | 1.122                  | 77.22        | 1.079                     | -0.04            | 0.096                  | 0.116                  |
|          | Bluetooth | 1Mbps | Front         | 10mm     | Ant 4+3(3) | 4           | 0   | 2402        | 16.17               | 17.00               | 1.211                  | 77.22        | 1.079                     | -0.04            | 0.094                  | 0.123                  |
|          | Bluetooth | 1Mbps | Back          | 10mm     | Ant 4+3(4) | 4           | 0   | 2402        | 16.50               | 17.00               | 1.122                  | 77.22        | 1.079                     | -0.09            | 0.130                  | 0.157                  |
|          | Bluetooth | 1Mbps | Back          | 10mm     | Ant 4+3(3) | 4           | 0   | 2402        | 16.17               | 17.00               | 1.211                  | 77.22        | 1.079                     | -0.09            | 0.098                  | 0.128                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 4+3(4) | 4           | 0   | 2402        | 16.50               | 17.00               | 1.122                  | 77.22        | 1.079                     | 0.06             | 0.001                  | 0.001                  |
|          | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 4+3(3) | 4           | 0   | 2402        | 16.17               | 17.00               | 1.211                  | 77.22        | 1.079                     | 0.06             | 0.063                  | 0.082                  |
|          | Bluetooth | 1Mbps | Right Side    | 10mm     | Ant 4+3(4) | 4           | 0   | 2402        | 16.50               | 17.00               | 1.122                  | 77.22        | 1.079                     | 0.12             | 0.149                  | 0.180                  |
|          | Bluetooth | 1Mbps | Right Side    | 10mm     | Ant 4+3(3) | 4           | 0   | 2402        | 16.17               | 17.00               | 1.211                  | 77.22        | 1.079                     | 0.12             | 0.121                  | 0.158                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(4) | 4           | 0   | 2402        | 16.50               | 17.00               | 1.122                  | 77.22        | 1.079                     | -0.06            | 0.239                  | 0.289                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(3) | 4           | 0   | 2402        | 16.17               | 17.00               | 1.211                  | 77.22        | 1.079                     | -0.06            | 0.012                  | 0.016                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(4) | 4           | 39  | 2441        | 16.17               | 17.00               | 1.211                  | 77.22        | 1.079                     | -0.02            | 0.116                  | 0.152                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(3) | 4           | 39  | 2441        | 16.00               | 17.00               | 1.259                  | 77.22        | 1.079                     | -0.02            | 0.097                  | 0.132                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(4) | 4           | 78  | 2480        | 15.87               | 17.00               | 1.297                  | 77.22        | 1.079                     | 0.12             | 0.121                  | 0.169                  |
|          | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 4+3(3) | 4           | 78  | 2480        | 15.67               | 17.00               | 1.358                  | 77.22        | 1.079                     | 0.12             | 0.038                  | 0.056                  |

**15.3 Body Worn Accessory SAR**
**<GSM SAR>**

| Plot No. | Band          | Mode              | Test Position | Gap (mm) | Power Index | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|-------------------|---------------|----------|-------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Front         | 10mm     | 5/6         | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | 0.02             | 0.684                  | 0.708                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Back          | 10mm     | 5/6         | 128 | 824.2       | 30.35               | 30.50               | 1.035                  | 0                | 0.685                  | 0.709                  |
| 70       | GSM850_Ant 0  | GPRS (4 Tx slots) | Back          | 10mm     | 5/6         | 189 | 836.4       | 29.80               | 30.50               | 1.175                  | 0.09             | 0.659                  | 0.774                  |
|          | GSM850_Ant 0  | GPRS (4 Tx slots) | Back          | 10mm     | 5/6         | 251 | 848.8       | 29.77               | 30.50               | 1.183                  | 0.05             | 0.632                  | 0.748                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Front         | 10mm     | 5/6         | 128 | 824.2       | 29.38               | 30.50               | 1.294                  | 0.02             | 0.267                  | 0.346                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 5/6         | 128 | 824.2       | 29.38               | 30.50               | 1.294                  | 0                | 0.363                  | 0.470                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 5/6         | 189 | 836.4       | 29.05               | 30.50               | 1.396                  | 0.05             | 0.373                  | 0.521                  |
|          | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 5/6         | 251 | 848.8       | 28.90               | 30.50               | 1.445                  | -0.06            | 0.454                  | 0.656                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Front         | 10mm     | 5           | 512 | 1850.2      | 27.09               | 28.00               | 1.233                  | 0.02             | 0.551                  | 0.679                  |
| 71       | GSM1900_Ant 2 | GPRS (4 Tx slots) | Back          | 10mm     | 5           | 512 | 1850.2      | 27.09               | 28.00               | 1.233                  | -0.1             | 0.787                  | 0.970                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Back          | 10mm     | 5           | 661 | 1880        | 27.08               | 28.00               | 1.236                  | -0.03            | 0.559                  | 0.691                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Back          | 10mm     | 5           | 810 | 1909.8      | 26.86               | 28.00               | 1.300                  | -0.05            | 0.497                  | 0.646                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Front         | 10mm     | 6           | 512 | 1850.2      | 27.09               | 27.60               | 1.125                  | 0.02             | 0.551                  | 0.620                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Back          | 10mm     | 6           | 512 | 1850.2      | 27.09               | 27.60               | 1.125                  | -0.1             | 0.787                  | 0.885                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Back          | 10mm     | 6           | 661 | 1880        | 27.08               | 27.60               | 1.127                  | -0.03            | 0.559                  | 0.630                  |
|          | GSM1900_Ant 2 | GPRS (4 Tx slots) | Back          | 10mm     | 6           | 810 | 1909.8      | 26.86               | 27.60               | 1.186                  | -0.05            | 0.497                  | 0.589                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Front         | 10mm     | 5           | 512 | 1850.2      | 22.71               | 24.20               | 1.409                  | 0.1              | 0.462                  | 0.651                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Front         | 10mm     | 5           | 661 | 1880        | 22.37               | 24.20               | 1.524                  | 0.05             | 0.383                  | 0.584                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Front         | 10mm     | 5           | 810 | 1909.8      | 22.20               | 24.20               | 1.585                  | 0                | 0.255                  | 0.404                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Back          | 10mm     | 5           | 512 | 1850.2      | 22.71               | 24.20               | 1.409                  | 0.02             | 0.415                  | 0.585                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Front         | 10mm     | 6           | 512 | 1850.2      | 22.71               | 23.00               | 1.069                  | 0.1              | 0.462                  | 0.494                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Front         | 10mm     | 6           | 661 | 1880        | 22.37               | 23.00               | 1.156                  | 0.05             | 0.383                  | 0.443                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Front         | 10mm     | 6           | 810 | 1909.8      | 22.20               | 23.00               | 1.202                  | 0                | 0.255                  | 0.307                  |
|          | GSM1900_Ant 0 | GPRS (4 Tx slots) | Back          | 10mm     | 6           | 512 | 1850.2      | 22.71               | 23.00               | 1.069                  | 0.02             | 0.415                  | 0.444                  |

**<WCDMA SAR>**

| Plot No. | Band           | Mode         | Test Position | Gap (mm) | Power Index | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------------|--------------|---------------|----------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Front         | 10mm     | 5           | 9262 | 1852.4      | 22.95               | 24.20               | 1.334                  | 0.05             | 0.570                  | 0.760                  |
| 72       | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 5           | 9262 | 1852.4      | 22.95               | 24.20               | 1.334                  | -0.14            | 0.858                  | 1.144                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 5           | 9400 | 1880        | 22.84               | 24.20               | 1.368                  | -0.07            | 0.791                  | 1.082                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 5           | 9538 | 1907.6      | 22.78               | 24.20               | 1.387                  | 0.03             | 0.712                  | 0.987                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Front         | 10mm     | 6           | 9262 | 1852.4      | 22.95               | 23.00               | 1.012                  | 0.05             | 0.570                  | 0.577                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 6           | 9262 | 1852.4      | 22.95               | 23.00               | 1.012                  | -0.14            | 0.858                  | 0.868                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 6           | 9400 | 1880        | 22.84               | 23.00               | 1.038                  | -0.07            | 0.791                  | 0.821                  |
|          | WCDMA II_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 6           | 9538 | 1907.6      | 22.78               | 23.00               | 1.052                  | 0.03             | 0.712                  | 0.749                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 5           | 9262 | 1852.4      | 18.60               | 20.00               | 1.380                  | 0.05             | 0.483                  | 0.667                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 5           | 9400 | 1880        | 18.51               | 20.00               | 1.409                  | 0.01             | 0.445                  | 0.627                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 5           | 9538 | 1907.6      | 18.45               | 20.00               | 1.429                  | 0.05             | 0.362                  | 0.517                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Back          | 10mm     | 5           | 9262 | 1852.4      | 18.60               | 20.00               | 1.380                  | 0.02             | 0.464                  | 0.640                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 6           | 9262 | 1852.4      | 18.60               | 18.80               | 1.047                  | 0.05             | 0.483                  | 0.506                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 6           | 9400 | 1880        | 18.51               | 18.80               | 1.069                  | 0.01             | 0.445                  | 0.476                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 6           | 9538 | 1907.6      | 18.45               | 18.80               | 1.084                  | 0.05             | 0.362                  | 0.392                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Back          | 10mm     | 6           | 9262 | 1852.4      | 18.60               | 18.80               | 1.047                  | 0.02             | 0.464                  | 0.486                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Front         | 10mm     | 5           | 1312 | 1712.4      | 22.85               | 24.20               | 1.365                  | 0.05             | 0.370                  | 0.505                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 5           | 1312 | 1712.4      | 22.85               | 24.20               | 1.365                  | 0.03             | 0.533                  | 0.727                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 5           | 1413 | 1732.6      | 22.68               | 24.20               | 1.419                  | 0                | 0.558                  | 0.792                  |
| 73       | WCDMA IV_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 5           | 1513 | 1752.6      | 22.76               | 24.20               | 1.393                  | 0.02             | 0.603                  | 0.840                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Front         | 10mm     | 6           | 1312 | 1712.4      | 22.85               | 23.00               | 1.035                  | 0.05             | 0.370                  | 0.383                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 6           | 1312 | 1712.4      | 22.85               | 23.00               | 1.035                  | 0.03             | 0.533                  | 0.552                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 6           | 1413 | 1732.6      | 22.68               | 23.00               | 1.076                  | 0                | 0.558                  | 0.601                  |
|          | WCDMA IV_Ant 2 | RMC 12.2Kbps | Back          | 10mm     | 6           | 1513 | 1752.6      | 22.76               | 23.00               | 1.057                  | 0.02             | 0.603                  | 0.637                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 5           | 1513 | 1752.6      | 18.55               | 20.40               | 1.531                  | -0.01            | 0.527                  | 0.807                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 5           | 1312 | 1712.4      | 18.54               | 20.40               | 1.535                  | -0.05            | 0.498                  | 0.764                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 5           | 1413 | 1732.6      | 18.41               | 20.40               | 1.581                  | -0.02            | 0.530                  | 0.838                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Back          | 10mm     | 5           | 1513 | 1752.6      | 18.55               | 20.40               | 1.531                  | 0.04             | 0.494                  | 0.756                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 6           | 1513 | 1752.6      | 18.55               | 19.20               | 1.161                  | -0.01            | 0.527                  | 0.612                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 6           | 1312 | 1712.4      | 18.54               | 19.20               | 1.164                  | -0.05            | 0.498                  | 0.580                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Front         | 10mm     | 6           | 1413 | 1732.6      | 18.41               | 19.20               | 1.199                  | -0.02            | 0.530                  | 0.636                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Back          | 10mm     | 6           | 1513 | 1752.6      | 18.55               | 19.20               | 1.161                  | 0.04             | 0.494                  | 0.574                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Front         | 10mm     | 5/6         | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | 0.11             | 0.551                  | 0.649                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Back          | 10mm     | 5/6         | 4182 | 836.4       | 24.69               | 25.40               | 1.178                  | -0.09            | 0.576                  | 0.678                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Back          | 10mm     | 5/6         | 4132 | 826.4       | 24.67               | 25.40               | 1.183                  | 0.14             | 0.603                  | 0.713                  |
| 74       | WCDMA V_Ant 0  | RMC 12.2Kbps | Back          | 10mm     | 5/6         | 4233 | 846.6       | 24.67               | 25.40               | 1.183                  | -0.01            | 0.635                  | 0.751                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 5/6         | 4182 | 836.4       | 24.72               | 25.40               | 1.169                  | 0.15             | 0.371                  | 0.434                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 5/6         | 4182 | 836.4       | 24.72               | 25.40               | 1.169                  | 0.09             | 0.526                  | 0.615                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 5/6         | 4132 | 826.4       | 24.71               | 25.40               | 1.172                  | 0.12             | 0.501                  | 0.587                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 5/6         | 4233 | 846.6       | 24.62               | 25.40               | 1.197                  | -0.1             | 0.559                  | 0.669                  |

**<FDD LTE SAR>**

| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 18900 | 1880        | 22.33               | 22.40               | 1.016                  | 0.01             | 0.784                  | 0.797                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 18900 | 1880        | 21.82               | 22.40               | 1.143                  | 0.02             | 0.824                  | 0.942                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 18700 | 1860        | 21.77               | 22.40               | 1.156                  | 0.07             | 0.666                  | 0.770                  |
| 75       | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Fornt         | 10mm     | 5           | 19100 | 1900        | 21.75               | 22.40               | 1.161                  | -0.04            | 0.960                  | 1.115                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 5           | 18900 | 1880        | 22.05               | 22.40               | 1.084                  | 0.02             | 0.816                  | 0.884                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 18900 | 1880        | 22.33               | 22.40               | 1.016                  | 0.01             | 0.694                  | 0.705                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 18900 | 1880        | 21.82               | 22.40               | 1.143                  | 0.06             | 0.708                  | 0.809                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 18700 | 1860        | 21.77               | 22.40               | 1.156                  | -0.05            | 0.585                  | 0.676                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 19100 | 1900        | 21.75               | 22.40               | 1.161                  | -0.03            | 0.851                  | 0.988                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 5           | 18900 | 1880        | 22.05               | 22.40               | 1.084                  | 0.01             | 0.709                  | 0.769                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 18900 | 1880        | 20.20               | 21.20               | 1.259                  | 0.03             | 0.615                  | 0.774                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 6           | 18900 | 1880        | 21.03               | 21.20               | 1.040                  | 0.02             | 0.750                  | 0.780                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 6           | 18700 | 1860        | 20.94               | 21.20               | 1.062                  | 0.03             | 0.516                  | 0.548                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Fornt         | 10mm     | 6           | 19100 | 1900        | 20.99               | 21.20               | 1.050                  | -0.06            | 0.744                  | 0.781                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 6           | 18900 | 1880        | 20.92               | 21.20               | 1.067                  | -0.05            | 0.632                  | 0.674                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 18900 | 1880        | 20.20               | 21.20               | 1.259                  | 0                | 0.538                  | 0.677                  |
|          | LTE Band 2_Ant 1 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 6           | 18900 | 1880        | 21.03               | 21.20               | 1.040                  | 0.08             | 0.548                  | 0.570                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 18700 | 1860        | 24.23               | 25.20               | 1.250                  | 0.02             | 0.391                  | 0.489                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5/6         | 18700 | 1860        | 23.14               | 24.20               | 1.276                  | 0                | 0.312                  | 0.398                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 18700 | 1860        | 24.23               | 25.20               | 1.250                  | 0.05             | 0.522                  | 0.653                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 18900 | 1880        | 23.93               | 25.20               | 1.340                  | -0.04            | 0.462                  | 0.619                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 19100 | 1900        | 23.71               | 25.20               | 1.409                  | -0.05            | 0.483                  | 0.681                  |
|          | LTE Band 2_Ant 5 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5/6         | 18700 | 1860        | 23.14               | 24.20               | 1.276                  | -0.01            | 0.411                  | 0.525                  |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 21100       | 2535        | 22.53               | 23.40               | 1.222                  | 0                | 0.587                  | 0.717                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 21100       | 2535        | 22.69               | 23.40               | 1.178                  | 0.05             | 0.575                  | 0.677                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 21100       | 2535        | 22.53               | 23.40               | 1.222                  | -0.01            | 0.730                  | 0.892                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 20850       | 2510        | 22.49               | 23.40               | 1.233                  | 0.02             | 0.678                  | 0.836                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 21350       | 2560        | 22.52               | 23.40               | 1.225                  | -0.06            | 0.750                  | 0.918                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 21100       | 2535        | 22.69               | 23.40               | 1.178                  | -0.07            | 0.715                  | 0.842                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 20850       | 2510        | 22.63               | 23.40               | 1.194                  | 0.1              | 0.674                  | 0.805                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 21350       | 2560        | 22.57               | 23.40               | 1.211                  | 0.03             | 0.742                  | 0.898                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 5           | 21100       | 2535        | 22.61               | 23.40               | 1.199                  | 0.06             | 0.705                  | 0.846                  |
|          | LTE Band 7C_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 21100+20920 | 2535        | 23.01               | 23.40               | 1.094                  | 0.02             | 0.666                  | 0.729                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 21100       | 2535        | 21.11               | 22.20               | 1.285                  | 0.02             | 0.372                  | 0.478                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 6           | 21100       | 2535        | 21.05               | 22.20               | 1.303                  | 0.05             | 0.381                  | 0.497                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 21100       | 2535        | 21.11               | 22.20               | 1.285                  | -0.04            | 0.452                  | 0.581                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 20850       | 2510        | 21.05               | 22.20               | 1.303                  | 0.02             | 0.418                  | 0.545                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 21350       | 2560        | 21.09               | 22.20               | 1.291                  | -0.01            | 0.465                  | 0.600                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 6           | 21100       | 2535        | 21.05               | 22.20               | 1.303                  | 0.03             | 0.445                  | 0.580                  |
|          | LTE Band 7C_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 21100+20920 | 2535        | 20.57               | 22.20               | 1.455                  | 0.07             | 0.302                  | 0.440                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 21100       | 2535        | 21.44               | 21.80               | 1.086                  | -0.1             | 0.956                  | 1.039                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 20850       | 2510        | 21.38               | 21.80               | 1.102                  | -0.16            | 0.880                  | 0.969                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 21350       | 2560        | 21.34               | 21.80               | 1.112                  | 0.01             | 0.955                  | 1.062                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 21100       | 2535        | 21.40               | 21.80               | 1.096                  | -0.06            | 0.937                  | 1.027                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 20850       | 2510        | 21.37               | 21.80               | 1.104                  | -0.06            | 0.879                  | 0.970                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 21350       | 2560        | 21.34               | 21.80               | 1.112                  | -0.1             | 0.941                  | 1.046                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 5           | 21100       | 2535        | 21.40               | 21.80               | 1.096                  | 0.09             | 0.931                  | 1.021                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 21100       | 2535        | 21.44               | 21.80               | 1.086                  | 0.11             | 1.020                  | 1.108                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 20850       | 2510        | 21.38               | 21.80               | 1.102                  | 0.12             | 0.955                  | 1.052                  |
| 76       | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 21350       | 2560        | 21.34               | 21.80               | 1.112                  | -0.06            | 1.050                  | 1.167                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 21100       | 2535        | 21.40               | 21.80               | 1.096                  | -0.01            | 1.010                  | 1.107                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 20850       | 2510        | 21.37               | 21.80               | 1.104                  | -0.16            | 0.966                  | 1.067                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 21350       | 2560        | 21.34               | 21.80               | 1.112                  | 0.03             | 1.040                  | 1.156                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 5           | 21100       | 2535        | 21.40               | 21.80               | 1.096                  | -0.06            | 1.010                  | 1.107                  |
|          | LTE Band 7C_Ant 0 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 21100+20920 | 2535        | 21.12               | 21.80               | 1.169                  | -0.02            | 0.705                  | 0.824                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 21100       | 2535        | 19.90               | 20.60               | 1.175                  | -0.11            | 0.704                  | 0.827                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 20850       | 2510        | 19.79               | 20.60               | 1.205                  | -0.16            | 0.648                  | 0.781                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 21350       | 2560        | 19.89               | 20.60               | 1.178                  | 0.03             | 0.695                  | 0.818                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 6           | 21100       | 2535        | 19.90               | 20.60               | 1.175                  | -0.11            | 0.690                  | 0.811                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 6           | 20850       | 2510        | 19.80               | 20.60               | 1.202                  | -0.15            | 0.647                  | 0.778                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 6           | 21350       | 2560        | 19.89               | 20.60               | 1.178                  | 0.03             | 0.693                  | 0.816                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 6           | 21100       | 2535        | 19.91               | 20.60               | 1.172                  | 0.08             | 0.686                  | 0.804                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 21100       | 2535        | 19.90               | 20.60               | 1.175                  | -0.15            | 0.719                  | 0.845                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 20850       | 2510        | 19.79               | 20.60               | 1.205                  | 0.02             | 0.670                  | 0.807                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 21350       | 2560        | 19.89               | 20.60               | 1.178                  | -0.19            | 0.737                  | 0.868                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 6           | 21100       | 2535        | 19.90               | 20.60               | 1.175                  | -0.15            | 0.715                  | 0.840                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 6           | 20850       | 2510        | 19.80               | 20.60               | 1.202                  | -0.05            | 0.678                  | 0.815                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 6           | 21350       | 2560        | 19.89               | 20.60               | 1.178                  | 0.03             | 0.736                  | 0.867                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 6           | 21100       | 2535        | 19.91               | 20.60               | 1.172                  | 0.09             | 0.709                  | 0.831                  |
|          | LTE Band 7C_Ant 0 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 21100+20920 | 2535        | 19.49               | 20.60               | 1.291                  | -0.04            | 0.498                  | 0.643                  |



# FCC SAR TEST REPORT

Report No. : FA102843-05E

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 23095 | 707.5       | 24.61               | 25.40               | 1.199                  | 0.02             | 0.325                  | 0.390                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 5/6         | 23095 | 707.5       | 23.60               | 24.40               | 1.202                  | 0                | 0.269                  | 0.323                  |
| 77       | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 23095 | 707.5       | 24.61               | 25.40               | 1.199                  | -0.15            | 0.356                  | 0.427                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 5/6         | 23095 | 707.5       | 23.60               | 24.40               | 1.202                  | -0.02            | 0.298                  | 0.358                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 23095 | 707.5       | 24.77               | 25.40               | 1.156                  | 0.01             | 0.237                  | 0.274                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 5/6         | 23095 | 707.5       | 23.75               | 24.40               | 1.161                  | 0                | 0.197                  | 0.229                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 23095 | 707.5       | 24.77               | 25.40               | 1.156                  | -0.05            | 0.273                  | 0.316                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 5/6         | 23095 | 707.5       | 23.75               | 24.40               | 1.161                  | 0.04             | 0.225                  | 0.261                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 23230 | 782         | 24.47               | 25.40               | 1.239                  | 0.02             | 0.470                  | 0.582                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 5/6         | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0                | 0.385                  | 0.474                  |
| 78       | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 23230 | 782         | 24.47               | 25.40               | 1.239                  | -0.07            | 0.545                  | 0.675                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 5/6         | 23230 | 782         | 23.50               | 24.40               | 1.230                  | 0.05             | 0.443                  | 0.545                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 23230 | 782         | 24.71               | 25.40               | 1.172                  | 0.01             | 0.308                  | 0.361                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 5/6         | 23230 | 782         | 23.65               | 24.40               | 1.189                  | 0                | 0.251                  | 0.298                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 23230 | 782         | 24.71               | 25.40               | 1.172                  | -0.08            | 0.402                  | 0.471                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 5/6         | 23230 | 782         | 23.65               | 24.40               | 1.189                  | 0.05             | 0.311                  | 0.370                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 23330 | 793         | 24.55               | 25.40               | 1.216                  | 0.01             | 0.544                  | 0.662                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 5/6         | 23330 | 793         | 23.55               | 24.40               | 1.216                  | 0                | 0.414                  | 0.504                  |
| 79       | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 23330 | 793         | 24.55               | 25.40               | 1.216                  | 0.07             | 0.607                  | 0.738                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 5/6         | 23330 | 793         | 23.55               | 24.40               | 1.216                  | 0.05             | 0.493                  | 0.600                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 23330 | 793         | 24.72               | 25.40               | 1.169                  | 0.02             | 0.311                  | 0.364                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 5/6         | 23330 | 793         | 23.75               | 24.40               | 1.161                  | 0.01             | 0.251                  | 0.292                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 23330 | 793         | 24.72               | 25.40               | 1.169                  | 0.11             | 0.392                  | 0.458                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 5/6         | 23330 | 793         | 23.75               | 24.40               | 1.161                  | 0                | 0.317                  | 0.368                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 26340 | 1880        | 23.32               | 24.60               | 1.343                  | 0                | 0.427                  | 0.573                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 26340 | 1880        | 23.21               | 24.10               | 1.227                  | 0.01             | 0.425                  | 0.522                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 26340 | 1880        | 23.32               | 24.60               | 1.343                  | -0.02            | 0.664                  | 0.892                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 26140 | 1860        | 23.19               | 24.60               | 1.384                  | -0.03            | 0.765                  | 1.058                  |
| 80       | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 26590 | 1905        | 23.10               | 24.60               | 1.413                  | 0.13             | 0.780                  | 1.102                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 26340 | 1880        | 23.21               | 24.10               | 1.227                  | 0.05             | 0.659                  | 0.809                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 26140 | 1860        | 23.10               | 24.10               | 1.259                  | -0.06            | 0.754                  | 0.949                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 26590 | 1905        | 22.95               | 24.10               | 1.303                  | -0.01            | 0.709                  | 0.924                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 5           | 26340 | 1880        | 23.16               | 24.10               | 1.242                  | 0.07             | 0.647                  | 0.803                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 26340 | 1880        | 22.35               | 23.40               | 1.274                  | 0.01             | 0.336                  | 0.428                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 6           | 26340 | 1880        | 22.22               | 23.40               | 1.312                  | 0                | 0.335                  | 0.440                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 26340 | 1880        | 22.35               | 23.40               | 1.274                  | 0.05             | 0.540                  | 0.688                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 26140 | 1860        | 22.23               | 23.40               | 1.309                  | -0.03            | 0.602                  | 0.788                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 26590 | 1905        | 22.14               | 23.40               | 1.337                  | 0.06             | 0.614                  | 0.821                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 6           | 26340 | 1880        | 22.22               | 23.40               | 1.312                  | 0.01             | 0.519                  | 0.681                  |
|          | LTE Band 25_Ant 2 | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 6           | 26340 | 1880        | 22.18               | 23.40               | 1.324                  | -0.08            | 0.510                  | 0.675                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 26340 | 1880        | 20.05               | 20.20               | 1.035                  | 0                | 0.573                  | 0.593                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 26140 | 1860        | 20.04               | 20.20               | 1.038                  | 0.03             | 0.699                  | 0.725                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 26590 | 1905        | 19.99               | 20.20               | 1.050                  | 0.05             | 0.452                  | 0.474                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 26340 | 1880        | 20.06               | 20.20               | 1.033                  | -0.01            | 0.571                  | 0.590                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 26340 | 1880        | 20.05               | 20.20               | 1.035                  | 0.02             | 0.527                  | 0.546                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 26340 | 1880        | 20.06               | 20.20               | 1.033                  | -0.03            | 0.511                  | 0.528                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 26340 | 1880        | 17.77               | 19.00               | 1.327                  | 0.02             | 0.342                  | 0.454                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 26140 | 1860        | 17.72               | 19.00               | 1.343                  | -0.07            | 0.405                  | 0.544                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 26590 | 1905        | 17.41               | 19.00               | 1.442                  | 0.01             | 0.278                  | 0.401                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 6           | 26340 | 1880        | 17.74               | 19.00               | 1.337                  | 0                | 0.336                  | 0.449                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 26340 | 1880        | 17.77               | 19.00               | 1.327                  | 0.03             | 0.314                  | 0.417                  |
|          | LTE Band 25_Ant 0 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 6           | 26340 | 1880        | 17.74               | 19.00               | 1.337                  | -0.05            | 0.314                  | 0.420                  |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | 0.07             | 0.434                  | 0.539                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Front         | 10mm     | 5/6         | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0.02             | 0.340                  | 0.423                  |
| 81       | LTE Band 26_Ant 0 | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 26865       | 831.5       | 24.46               | 25.40               | 1.242                  | 0.06             | 0.493                  | 0.612                  |
|          | LTE Band 26_Ant 0 | 15M      | QPSK       | 36      | 0         | Back          | 10mm     | 5/6         | 26865       | 831.5       | 23.45               | 24.40               | 1.245                  | 0.01             | 0.391                  | 0.487                  |
|          | LTE Band 5B_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 20525+20624 | 836.5       | 23.07               | 23.70               | 1.156                  | 0.05             | 0.330                  | 0.382                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | 5/6         | 26865       | 831.5       | 24.84               | 25.40               | 1.138                  | 0.01             | 0.289                  | 0.329                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Front         | 10mm     | 5/6         | 26865       | 831.5       | 23.75               | 24.40               | 1.161                  | 0                | 0.233                  | 0.271                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 26865       | 831.5       | 24.84               | 25.40               | 1.138                  | 0.04             | 0.416                  | 0.473                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Back          | 10mm     | 5/6         | 26865       | 831.5       | 23.75               | 24.40               | 1.161                  | 0.05             | 0.344                  | 0.400                  |
|          | LTE Band 5B_Ant 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5/6         | 20525+20624 | 836.5       | 23.89               | 24.00               | 1.026                  | 0.03             | 0.289                  | 0.296                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 27710       | 2310        | 22.52               | 23.40               | 1.225                  | 0.01             | 0.545                  | 0.667                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 5           | 27710       | 2310        | 22.36               | 23.40               | 1.271                  | 0                | 0.586                  | 0.745                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 27710       | 2310        | 22.52               | 23.40               | 1.225                  | -0.01            | 0.589                  | 0.721                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 5           | 27710       | 2310        | 22.36               | 23.40               | 1.271                  | 0.02             | 0.572                  | 0.727                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 27710       | 2310        | 21.84               | 22.20               | 1.086                  | 0.02             | 0.461                  | 0.501                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 6           | 27710       | 2310        | 21.88               | 22.20               | 1.076                  | 0                | 0.474                  | 0.510                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 27710       | 2310        | 21.84               | 22.20               | 1.086                  | 0.06             | 0.519                  | 0.564                  |
|          | LTE Band 30_Ant 2 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 6           | 27710       | 2310        | 21.88               | 22.20               | 1.076                  | 0.02             | 0.513                  | 0.552                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 5           | 27710       | 2310        | 20.92               | 21.20               | 1.067                  | 0.06             | 0.896                  | 0.956                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 5           | 27710       | 2310        | 21.01               | 21.20               | 1.045                  | 0.09             | 0.876                  | 0.915                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 50      | 0         | Front         | 10mm     | 5           | 27710       | 2310        | 20.99               | 21.20               | 1.050                  | 0.15             | 0.866                  | 0.909                  |
| 82       | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 5           | 27710       | 2310        | 20.92               | 21.20               | 1.067                  | -0.09            | 0.970                  | 1.035                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 5           | 27710       | 2310        | 21.01               | 21.20               | 1.045                  | -0.12            | 0.950                  | 0.992                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 50      | 0         | Back          | 10mm     | 5           | 27710       | 2310        | 20.99               | 21.20               | 1.050                  | -0.09            | 0.946                  | 0.993                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 6           | 27710       | 2310        | 19.57               | 20.00               | 1.104                  | 0.01             | 0.550                  | 0.607                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 6           | 27710       | 2310        | 19.57               | 20.00               | 1.104                  | 0.15             | 0.541                  | 0.597                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 6           | 27710       | 2310        | 19.57               | 20.00               | 1.104                  | -0.12            | 0.631                  | 0.697                  |
|          | LTE Band 30_Ant 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 6           | 27710       | 2310        | 19.57               | 20.00               | 1.104                  | -0.15            | 0.598                  | 0.660                  |