



# TEST REPORT

No.I22N01500-SAR

For

**BLU Products,Inc.**

**Smart Phone**

**Model Name: B1550VL**

With

**Hardware Version: V1.0**

**Software Version: BLU\_B1550VL\_V12.0.02.05.02.17\_FSec**

**FCC ID: YHLBLUB1550VL**

**Issued Date: 2022-10-01**

**Designation Number: CN1210**

**Note:**

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

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No.I22N01500-SAR

## **REPORT HISTORY**

| <b>Report Number</b> | <b>Revision</b> | <b>Description</b> | <b>Issue Date</b> |
|----------------------|-----------------|--------------------|-------------------|
| I22N01500-SAR        | Rev.0           | 1st edition        | 2022-10-01        |

## CONTENTS

|                                                                         |           |
|-------------------------------------------------------------------------|-----------|
| <b>1. SUMMARY OF TEST REPORT .....</b>                                  | <b>5</b>  |
| 1.1. TEST ITEMS .....                                                   | 5         |
| 1.2. TEST STANDARDS .....                                               | 5         |
| 1.3. TEST RESULT .....                                                  | 5         |
| 1.4. TESTING LOCATION .....                                             | 5         |
| 1.5. PROJECT DATA .....                                                 | 5         |
| 1.6. SIGNATURE .....                                                    | 5         |
| <b>2. STATEMENT OF COMPLIANCE .....</b>                                 | <b>6</b>  |
| <b>3. CLIENT INFORMATION .....</b>                                      | <b>8</b>  |
| 3.1. APPLICANT INFORMATION .....                                        | 8         |
| 3.2. MANUFACTURER INFORMATION .....                                     | 8         |
| <b>4. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) .....</b> | <b>9</b>  |
| 4.1. ABOUT EUT .....                                                    | 9         |
| 4.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST .....          | 10        |
| 4.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST .....           | 10        |
| <b>5. TEST METHODOLOGY .....</b>                                        | <b>11</b> |
| 5.1. APPLICABLE LIMIT REGULATIONS .....                                 | 11        |
| 5.2. APPLICABLE MEASUREMENT STANDARDS .....                             | 11        |
| <b>6. SPECIFIC ABSORPTION RATE (SAR) .....</b>                          | <b>13</b> |
| 6.1. INTRODUCTION .....                                                 | 13        |
| 6.2. SAR DEFINITION .....                                               | 13        |
| <b>7. TISSUE SIMULATING LIQUIDS .....</b>                               | <b>14</b> |
| 7.1. TARGETS FOR TISSUE SIMULATING LIQUID .....                         | 14        |
| 7.2. DIELECTRIC PERFORMANCE .....                                       | 14        |
| <b>8. SYSTEM VERIFICATION .....</b>                                     | <b>19</b> |
| 8.1. SYSTEM SETUP .....                                                 | 19        |
| 8.2. SYSTEM VERIFICATION .....                                          | 20        |
| <b>9. MEASUREMENT PROCEDURES .....</b>                                  | <b>21</b> |
| 9.1. TESTS TO BE PERFORMED .....                                        | 21        |
| 9.2. GENERAL MEASUREMENT PROCEDURE .....                                | 23        |
| 9.3. WCDMA MEASUREMENT PROCEDURES FOR SAR .....                         | 24        |
| 9.4. SAR MEASUREMENT FOR LTE .....                                      | 25        |
| 9.5. BLUETOOTH & WLAN MEASUREMENT PROCEDURES FOR SAR .....              | 25        |
| 9.6. POWER DRIFT .....                                                  | 26        |
| <b>10. CONDUCTED OUTPUT POWER.....</b>                                  | <b>27</b> |



|                                                                                 |            |
|---------------------------------------------------------------------------------|------------|
| 10.1. WCDMA MEASUREMENT RESULT .....                                            | 28         |
| 10.2. LTE MEASUREMENT RESULT .....                                              | 32         |
| 10.3. NR MEASUREMENT RESULT .....                                               | 157        |
| 10.4. BLUETOOTH AND WLAN MEASUREMENT RESULT .....                               | 185        |
| <b>11. SIMULTANEOUS TX SAR CONSIDERATIONS .....</b>                             | <b>190</b> |
| 11.1. INTRODUCTION.....                                                         | 190        |
| 11.2. TRANSMIT ANTENNA SEPARATION DISTANCES .....                               | 190        |
| 11.3. SAR MEASUREMENT POSITIONS.....                                            | 193        |
| <b>12. EVALUATION OF SIMULTANEOUS.....</b>                                      | <b>194</b> |
| <b>13. SUMMARY OF TEST RESULTS.....</b>                                         | <b>215</b> |
| 13.1. TESTING ENVIRONMENT.....                                                  | 215        |
| 13.2. SAR RESULTS FOR 3G/4G .....                                               | 216        |
| 13.3. TEST RESULTS FOR SUB 6G.....                                              | 231        |
| 13.4. TEST RESULTS FOR BLUETOOTH.....                                           | 240        |
| 13.5. WLAN EVALUATION FOR 2.4GHZ .....                                          | 241        |
| 13.6. WLAN EVALUATION FOR 5GHZ .....                                            | 243        |
| 13.7. PRODUCT SPECIFIC 10G SAR .....                                            | 247        |
| <b>14. SAR MEASUREMENT VARIABILITY.....</b>                                     | <b>249</b> |
| <b>15. MEASUREMENT UNCERTAINTY .....</b>                                        | <b>251</b> |
| 15.1. MEASUREMENT UNCERTAINTY FOR NORMAL SAR TESTS (300MHz~3GHz) .....          | 251        |
| 15.2. MEASUREMENT UNCERTAINTY FOR NORMAL SAR TESTS (3GHz~6GHz).....             | 252        |
| <b>16. MAIN TEST INSTRUMENTS.....</b>                                           | <b>253</b> |
| <b>ANNEX A: GRAPH RESULTS .....</b>                                             | <b>254</b> |
| <b>ANNEX B: SYSTEM VERIFICATION RESULTS .....</b>                               | <b>294</b> |
| <b>ANNEX C: SAR MEASUREMENT SETUP.....</b>                                      | <b>304</b> |
| <b>ANNEX D: POSITION OF THE WIRELESS DEVICE IN RELATION TO THE PHANTOM.....</b> | <b>310</b> |
| <b>ANNEX E: EQUIVALENT MEDIA RECIPES .....</b>                                  | <b>313</b> |
| <b>ANNEX F: SYSTEM VALIDATION.....</b>                                          | <b>314</b> |
| <b>ANNEX G: DAE CALIBRATION CERTIFICATE .....</b>                               | <b>315</b> |
| <b>ANNEX H: PROBE CALIBRATION CERTIFICATE .....</b>                             | <b>320</b> |
| <b>ANNEX I: DIPOLE CALIBRATION CERTIFICATE .....</b>                            | <b>329</b> |
| <b>ANNEX J: EXTENDED CALIBRATION SAR DIPOLE.....</b>                            | <b>379</b> |

## 1. Summary of Test Report

### 1.1. Test Items

Description: Smart Phone  
Model Name: B1550VL  
Applicant's Name: BLU Products, Inc.  
Manufacturer's Name: BLU Products, Inc.

### 1.2. Test Standards

ANSI C95.1:1992, IEEE 1528:2013

### 1.3. Test Result

Pass. Please refer to "13. Summary of Test Results"

### 1.4. Testing Location

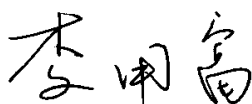
Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road,  
Futian District, Shenzhen, Guangdong, P. R. China

### 1.5. Project Data

Testing Start Date: 2022-08-28

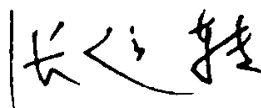
Testing End Date: 2022-09-18

### 1.6. Signature



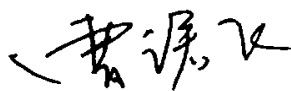
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Li Yongfu  
(Prepared this test report)



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Zhang Yunzhuan  
(Reviewed this test report)



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Cao Junfei  
(Approved this test report)



## 2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for BLU Products, Inc. Smart Phone B1550VL are as follows:

**Table 2.1: Highest Reported SAR (1g)**

| Equipment Class | Frequency Bands | 1g SAR (W/kg)                     |                                       |                                            |
|-----------------|-----------------|-----------------------------------|---------------------------------------|--------------------------------------------|
|                 |                 | Head<br>(Separation Distance 0mm) | Hotspot<br>(Separation Distance 10mm) | Body-worn<br>(Separation Distance 10/15mm) |
| PCE             | WCDMA Band 2    | 0.16                              | 1.10                                  | 0.45                                       |
|                 | WCDMA Band 4    | 0.13                              | <b>1.27</b>                           | <b>0.73</b>                                |
|                 | WCDMA Band 5    | 0.36                              | 0.45                                  | 0.45                                       |
|                 | LTE Band 2      | 0.19                              | 1.01                                  | 0.41                                       |
|                 | LTE Band 4      | 0.18                              | 1.21                                  | 0.66                                       |
|                 | LTE Band 5      | 0.42                              | 0.42                                  | 0.42                                       |
|                 | LTE Band 12     | 0.15                              | 0.29                                  | 0.29                                       |
|                 | LTE Band 13     | 0.32                              | 0.36                                  | 0.36                                       |
|                 | LTE Band 66     | 0.20                              | 0.79                                  | 0.63                                       |
|                 | NR n2 (NSA)     | 0.15                              | 0.72                                  | 0.42                                       |
|                 | NR n5 (NSA)     | 0.48                              | 0.57                                  | 0.51                                       |
|                 | NR n66 (NSA)    | 0.19                              | 0.74                                  | 0.40                                       |
|                 | NR n77 (NSA)    | 0.69                              | 0.69                                  | 0.55                                       |
| DSS             | Bluetooth       | 0.03                              | 0.04                                  | 0.04                                       |
| DTS             | WLAN 2.4GHz     | 0.99                              | 0.38                                  | 0.32                                       |
| NII             | WLAN 5GHz       | <b>1.00</b>                       | 1.16                                  | 0.58                                       |

**Table 2.2: Highest Reported SAR (10g)**

| Equipment Class | Frequency Bands | Extremity 10g SAR (W/kg)<br>(Separation Distance 0mm) |
|-----------------|-----------------|-------------------------------------------------------|
| PCE             | WCDMA Band 2    | 2.82                                                  |
|                 | WCDMA Band 4    | <b>3.20</b>                                           |
|                 | LTE Band 2      | 2.82                                                  |
|                 | LTE Band 4      | 2.91                                                  |
|                 | LTE Band 66     | 3.12                                                  |
| NII             | WLAN 5GHz       | 2.64                                                  |

The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/Kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

The measurement together with the test system set-up is described in annex C of this test report.

A detailed description of the equipment under test can be found in chapter 4 of this test report.

The highest reported SAR value is obtained at the case of **(Table 2.1 & 2.2)**, Head value is **1.00 W/kg (1g)**, Hotspot value is **1.27 W/kg (1g)**, Body-worn value is **0.73 W/kg (1g)** and Extremity SAR value is **3.20 W/kg (10g)**.

**Table 2.3: Maximum Simultaneous Transmission SAR**

| <i>/</i>                                    | Position                                               | Sum (W/kg)  |
|---------------------------------------------|--------------------------------------------------------|-------------|
| Highest reported SAR value<br>for Head      | Right Cheek<br>(DC_66A_n77A + WLAN 5HGHz + Bluetooth ) | <b>1.58</b> |
| Highest reported SAR value<br>for Hotspot   | Rear Side<br>(DC_13A_n77A + WLAN 2.4GHz )              | <b>1.59</b> |
| Highest reported SAR value<br>for Body-worn | Rear Side<br>(DC_66A_n77A + WLAN 5HGHz + Bluetooth )   | <b>1.49</b> |
| Highest reported SAR value<br>for Extremity | Bottom Side<br>(WCDMA Band 4 + WLAN 5HGHz )            | <b>3.20</b> |

Note: the test positions of above tables are for the worse case that has been evaluated.

According to the above tables, the highest sum of reported SAR values is **1.59 W/kg (1g)** and **3.20 W/kg (10g)**.

The detail for simultaneous transmission consideration is described in chapter 12.



### 3. Client Information

#### 3.1. Applicant Information

|               |                                            |
|---------------|--------------------------------------------|
| Company Name: | BLU Products,Inc.                          |
| Address:      | 10814 NW 33rd St # 100 Doral, FL 33172,USA |
| City:         | /                                          |
| Country:      | USA                                        |
| Telephone:    | 305.715.7171                               |

#### 3.2. Manufacturer Information

|               |                                            |
|---------------|--------------------------------------------|
| Company Name: | BLU Products,Inc.                          |
| Address:      | 10814 NW 33rd St # 100 Doral, FL 33172,USA |
| City:         | /                                          |
| Country:      | USA                                        |
| Telephone:    | 305.715.7171                               |



## 4. Equipment under Test (EUT) and Ancillary Equipment (AE)

### 4.1. About EUT

|                                                                                             |                                                                                                |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Description:                                                                                | Smart Phone                                                                                    |
| Model Name:                                                                                 | B1550VL                                                                                        |
| Condition of EUT as received:                                                               | No obvious damage in appearance                                                                |
| Frequency Bands:                                                                            | WCDMA Band 2/4/5, LTE Band 2/4/5/12/13/66, NR n2/n5/n66/n77, Bluetooth, WLAN 2.4GHz, WLAN 5GHz |
| Tested Tx Frequency:                                                                        | 1850 – 1910MHz (WCDMA Band 2)                                                                  |
|                                                                                             | 1710 – 1755MHz (WCDMA Band 4)                                                                  |
|                                                                                             | 824 – 849MHz (WCDMA Band 5)                                                                    |
|                                                                                             | 1850 – 1910MHz (LTE Band 2)                                                                    |
|                                                                                             | 1700 – 1755MHz (LTE Band 4)                                                                    |
|                                                                                             | 824 – 849MHz (LTE Band 5)                                                                      |
|                                                                                             | 699 – 716MHz (LTE Band 12)                                                                     |
|                                                                                             | 777 – 787MHz (LTE Band 13)                                                                     |
|                                                                                             | 1710 – 1780MHz (LTE Band 66)                                                                   |
|                                                                                             | 1850 – 1910MHz (NR n2)                                                                         |
|                                                                                             | 824 – 849MHz (NR n5)                                                                           |
|                                                                                             | 1710 – 1780MHz (NR n66)                                                                        |
|                                                                                             | 3450 – 3550MHz, 3700 – 3980MHz (NR n77)                                                        |
|                                                                                             | 2402 – 2480MHz (Bluetooth)                                                                     |
|                                                                                             | 2412 – 2462MHz (WLAN 2.4GHz)                                                                   |
|                                                                                             | 5150 – 5850MHz (WLAN 5GHz)                                                                     |
| Test device Production information:                                                         | Production unit                                                                                |
| Device type:                                                                                | Portable device                                                                                |
| Antenna type:                                                                               | Embedded antenna                                                                               |
| Hotspot mode:                                                                               | Support                                                                                        |
| Product Dimensions:                                                                         | Long 168.08mm;Wide 76.91mm;Overall Diagonal 184.84mm                                           |
| <b>Remark:</b> This device WLAN 5GHz U-NII-2A and U-NII-2C don't support hotspot operation. |                                                                                                |

#### 4.2. Internal Identification of EUT used during the test

| EUT ID* | IMEI            | HW Version | SW Version                             | Receipt Date |
|---------|-----------------|------------|----------------------------------------|--------------|
| UT03aa  | 350547790004408 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT14aa  | 350547790009282 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT15aa  | 350547790009357 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT16aa  | 350547790010009 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT17aa  | 350547790008599 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT18aa  | 350547790009597 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT19aa  | 350547790010223 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT22aa  | 350547790009266 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT25aa  | 350547790014217 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |
| UT26aa  | 350547790013367 | V1.0       | BLU_B1550VL_V12.<br>0.02.05.02.17_FSec | 2022-07-28   |

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

**Note:** It is performed to test SAR with the UT14aa & UT15aa & UT16aa & UT17aa & UT18aa & UT19aa & UT22aa & UT26aa, and conducted power with the UT03aa & UT25aa.

#### 4.3. Internal Identification of AE used during the test

| AE ID* | Description | Model       | Manufacturer                          |
|--------|-------------|-------------|---------------------------------------|
| AE1    | Battery     | TN-BP4000N1 | Guangdong Fenghua New Energy Co.,Ltd. |

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

## 5. Test Methodology

### 5.1. Applicable Limit Regulations

**ANSI C95.1:1992** IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

### 5.2. Applicable Measurement Standards

**IEEE 1528:2013** Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Experimental Techniques.

**KDB 447498 D01 General RF Exposure Guidance v06** RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

**KDB 648474 D04 Handset SAR v01r03** SAR Evaluation Considerations for Wireless Handsets.

**KDB 941225 D01 SAR test for 3G devices v03r01** SAR Measurement Procedures for 3G Devices

**KDB 941225 D05 SAR for LTE Devices v02r05** SAR Evaluation Considerations for LTE Devices

**KDB 941225 D06 Hot Spot SAR v02r01** SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

**KDB 248227 D01 802.11 Wi-Fi SAR v02r02** SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters.

**KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04** SAR Measurement Requirements for 100 MHz to 6 GHz

**KDB 865664 D02 RF Exposure Reporting v01r02** RF Exposure Compliance Reporting and Documentation Considerations

**KDB 941225 D07 UMPC Mini Tablet v01r02** SAR Evaluation Procedures for UMPC Mini-Tablet Devices

**KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02: REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES**

**TCB workshop May 2017: RF Exposure Procedures**

**TCB workshop October 2018: RF Exposure Procedures**

**TCB workshop April 2019: RF Exposure Procedures**

**TCB workshop November 2019: RF Exposure Policy Updates**

**TCB workshop April 2020: RF Exposure Policies and Procedures - Status**

**TCB workshop October 2020: RF Exposure Procedures**



No.I22N01500-SAR

**TCB workshop April 2022: RF Exposure Procedures**

## 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 measurement can be either related to the temperature elevation in tissue by

$$SAR = c \left( \frac{\delta T}{\delta t} \right)$$

Where:  $C$  is the specific heat capacity,  $\delta T$  is the temperature rise and  $\delta t$  is the exposure duration, or related to the electrical field in the tissue by

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

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

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

## 7. Tissue Simulating Liquids

### 7.1. Targets for tissue simulating liquid

**Table 7.1: Targets for tissue simulating liquid**

| Frequency (MHz) | Liquid Type | Conductivity ( $\sigma$ ) | $\pm 5\%$ Range | Permittivity ( $\epsilon$ ) | $\pm 5\%$ Range |
|-----------------|-------------|---------------------------|-----------------|-----------------------------|-----------------|
| 750             | Head        | 0.89                      | 0.85~0.93       | 41.9                        | 39.8~44.0       |
| 835             | Head        | 0.90                      | 0.86~0.95       | 41.5                        | 39.4~43.6       |
| 1750            | Head        | 1.37                      | 1.30~1.44       | 40.1                        | 38.1~42.1       |
| 1900            | Head        | 1.40                      | 1.33~1.47       | 40.0                        | 38.0~42.0       |
| 2450            | Head        | 1.80                      | 1.71~1.89       | 39.2                        | 37.2~41.2       |
| 3500            | Head        | 2.91                      | 2.77~3.05       | 37.9                        | 36.0~39.7       |
| 3900            | Head        | 3.32                      | 3.16~3.48       | 37.5                        | 35.7~39.3       |
| 5250            | Head        | 4.71                      | 4.47~4.95       | 35.9                        | 34.1~37.7       |
| 5600            | Head        | 5.07                      | 4.82~5.32       | 35.5                        | 33.8~37.3       |
| 5750            | Head        | 5.22                      | 4.96~5.48       | 35.4                        | 33.6~37.1       |

### 7.2. Dielectric Performance

**Table 7.2: Dielectric Performance of Tissue Simulating Liquid**

| Measurement Date (yyyy-mm-dd) | Type | Frequency (MHz) | Conductivity $\sigma$ (S/m) | Drift (%) | Permittivity $\epsilon$ | Drift (%) |
|-------------------------------|------|-----------------|-----------------------------|-----------|-------------------------|-----------|
| 2022-09-02                    | 750  | Head            | 0.881                       | -1.01     | 42.57                   | 1.60      |
| 2022-09-05                    | 835  | Head            | 0.922                       | 2.44      | 40.96                   | -1.30     |
| 2022-09-18                    | 1750 | Head            | 1.386                       | 1.17      | 39.24                   | -2.14     |
| 2022-08-28                    | 1900 | Head            | 1.428                       | 2.00      | 38.92                   | -2.70     |
| 2022-09-11                    | 2450 | Head            | 1.835                       | 1.94      | 38.73                   | -1.20     |
| 2022-08-30                    | 3500 | Head            | 2.863                       | -1.62     | 38.49                   | 1.56      |
| 2022-09-07                    | 3900 | Head            | 3.406                       | 2.59      | 36.98                   | -1.39     |
| 2022-09-10                    | 5250 | Head            | 4.655                       | -1.17     | 36.41                   | 1.42      |
| 2022-09-10                    | 5600 | Head            | 5.173                       | 2.03      | 34.85                   | -1.83     |
| 2022-09-10                    | 5750 | Head            | 5.311                       | 1.74      | 34.59                   | -2.29     |

Note: The liquid temperature is 22.0°C.



**Picture 7-1: Liquid depth in the Head Phantom (750MHz)**



**Picture 7-2: Liquid depth in the Head Phantom (835MHz)**



**Picture 7-3: Liquid depth in the Head Phantom (1750MHz)**



**Picture 7-4: Liquid depth in the Head Phantom (1900MHz)**





**Picture 7-5: Liquid depth in the Head Phantom (2450MHz)**



**Picture 7-6: Liquid depth in the Head Phantom (3700MHz)**



**Picture 7-7: Liquid depth in the Head Phantom (3900MHz)**

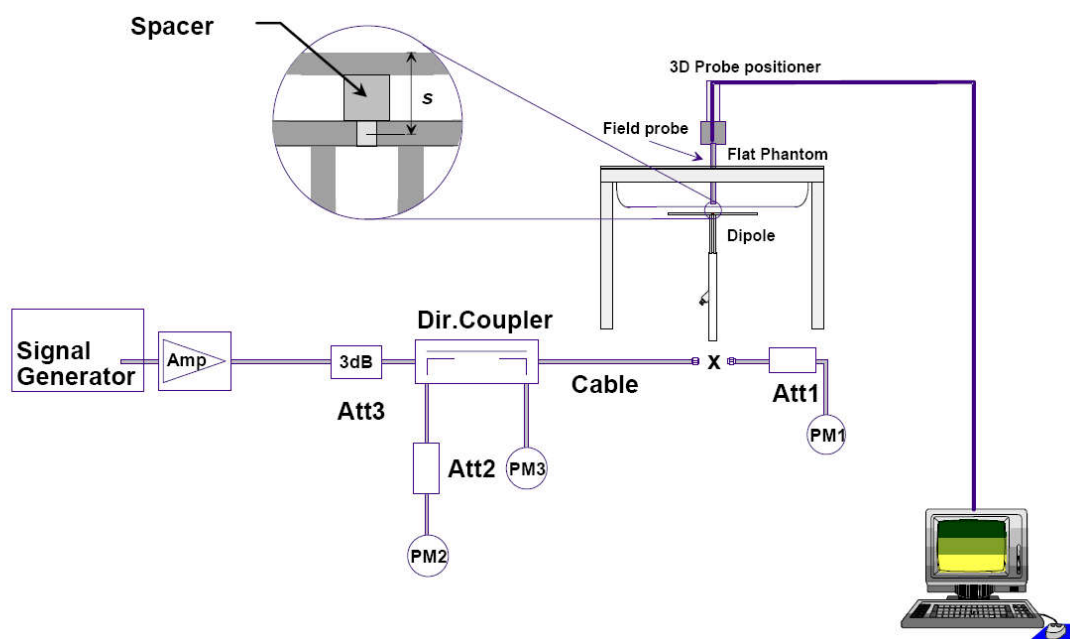


**Picture 7-8: Liquid depth in the Head Phantom (5GHz)**

## 8. System verification

### 8.1. System Setup

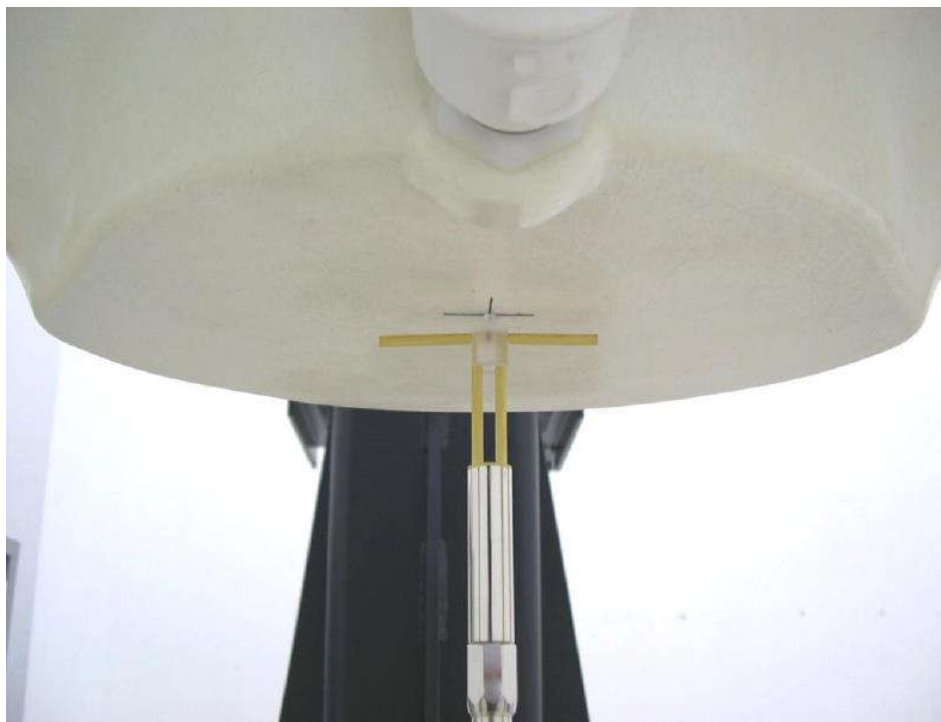
In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



**Picture 8.1 System Setup for System Evaluation**

For the dipole below 3GHz, the output power on dipole port must be calibrated to 24 dBm (250mW) before dipole is connected.

For the dipole above 3GHz, the output power on dipole port must be calibrated to 20 dBm (100mW) before dipole is connected.



Picture 8.2 Photo of Dipole Setup

## 8.2. System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.

Table 8.1: System Verification of Head

| Measurement Date | Frequency (MHz) | Target value (W/kg) |       | Measured value (W/kg) |      |                 |       | Deviation (%) |       |
|------------------|-----------------|---------------------|-------|-----------------------|------|-----------------|-------|---------------|-------|
|                  |                 |                     |       | /                     |      | Normalize to 1W |       |               |       |
|                  |                 | 10 g                | 1 g   | 10 g                  | 1 g  | 10 g            | 1 g   | 10 g          | 1 g   |
| 2022-09-02       | 750             | 5.62                | 8.48  | 1.38                  | 2.04 | 5.52            | 8.16  | -1.78         | -3.77 |
| 2022-09-05       | 835             | 6.29                | 9.64  | 1.61                  | 2.49 | 6.44            | 9.96  | 2.38          | 3.32  |
| 2022-09-18       | 1750            | 19.60               | 36.30 | 4.99                  | 9.43 | 19.96           | 37.72 | 1.84          | 3.91  |
| 2022-08-28       | 1900            | 20.50               | 40.20 | 5.28                  | 10.5 | 21.12           | 42.00 | 3.02          | 4.48  |
| 2022-09-11       | 2450            | 24.20               | 53.20 | 6.17                  | 13.8 | 24.68           | 55.20 | 1.98          | 3.76  |
| 2022-08-30       | 3500            | 25.20               | 66.80 | 2.49                  | 6.51 | 24.90           | 65.10 | -1.19         | -2.54 |
| 2022-09-07       | 3900            | 24.80               | 71.30 | 2.55                  | 7.47 | 25.50           | 74.70 | 2.82          | 4.77  |
| 2022-09-10       | 5250            | 22.80               | 79.70 | 2.24                  | 7.72 | 22.40           | 77.20 | -1.75         | -3.14 |
| 2022-09-10       | 5600            | 23.60               | 82.60 | 2.40                  | 8.56 | 24.00           | 85.60 | 1.69          | 3.63  |
| 2022-09-10       | 5750            | 22.10               | 78.50 | 2.26                  | 8.18 | 22.60           | 81.80 | 2.26          | 4.20  |

## 9. Measurement Procedures

### 9.1. Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

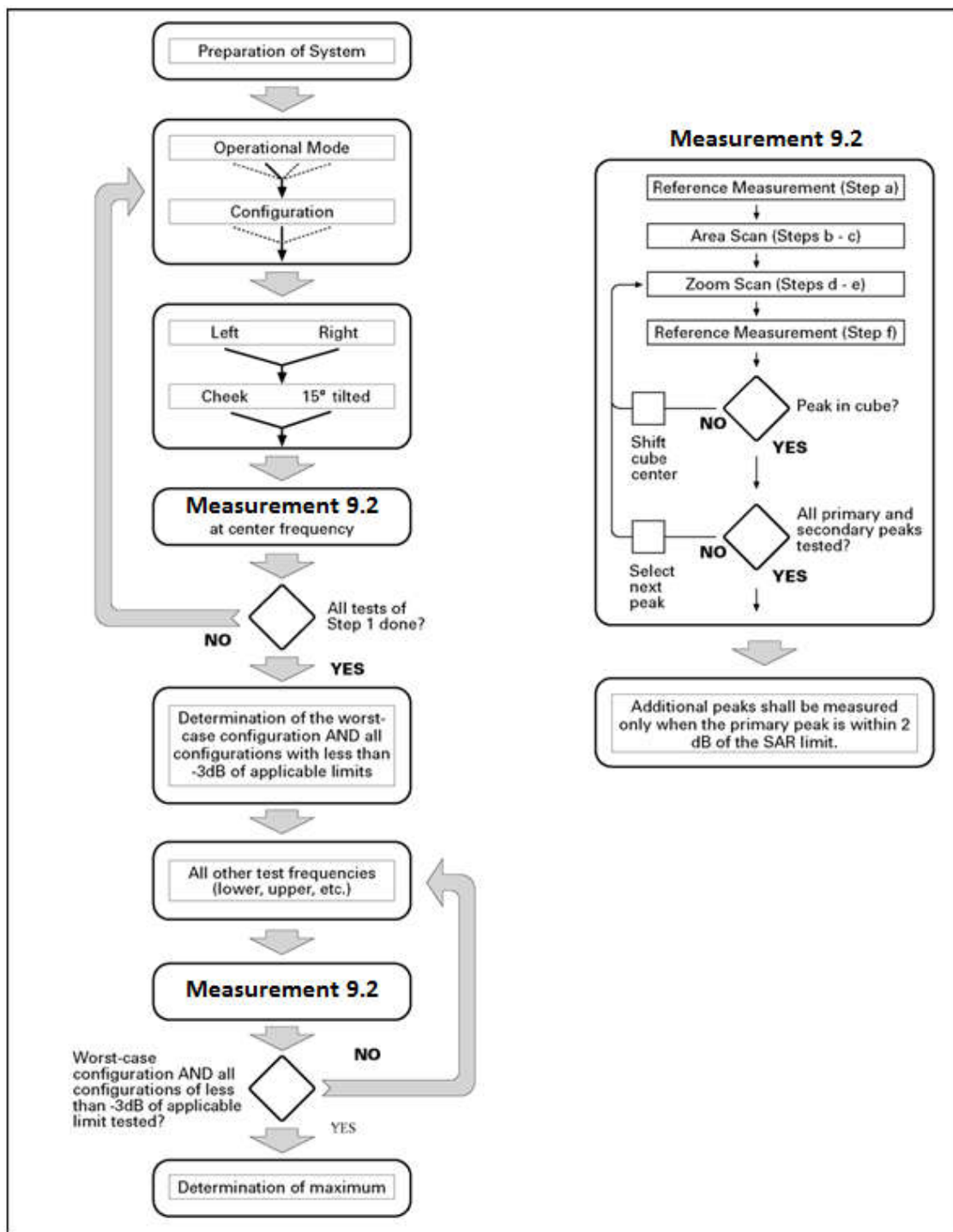
**Step 1:** The tests described in 9.2 shall be performed at the channel that is closest to the center of the transmit frequency band ( $f_c$ ) for:

- a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
- b) all configurations for each device position in a), e.g., antenna extended and retracted, and
- c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e.,  $N_c > 3$ ), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

**Step 2:** For the condition providing highest peak spatial-average SAR determined in Step 1, perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

**Step 3:** Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.



Picture 9.1 Block diagram of the tests to be performed

## 9.2. General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

|                                                                                                                                                                                                                                                                                                             |                                    |                                                                                      |                                                                                                                                                                                                                                                                        |                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                             |                                    |                                                                                      | $\leq 3$ 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. |                                                                               |
| Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$                                                                                                                                                                                                                                 |                                    |                                                                                      | $\leq 2$ 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: $\Delta z_{Zoom}(n)$ |                                                                                      | $\leq 5$ mm                                                                                                                                                                                                                                                            | 3 – 4 GHz: $\leq 4$ mm<br>4 – 5 GHz: $\leq 3$ mm<br>5 – 6 GHz: $\leq 2$ mm    |
|                                                                                                                                                                                                                                                                                                             | graded grid                        | $\Delta z_{Zoom}(1)$ : 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  |
|                                                                                                                                                                                                                                                                                                             |                                    | $\Delta z_{Zoom}(n>1)$ : between subsequent points                                   | $\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$                                                                                                                                                                                                                                  |                                                                               |
| 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 <u>reported</u> SAR from the area scan based <i>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. |                                    |                                                                                      |                                                                                                                                                                                                                                                                        |                                                                               |



### 9.3. WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCH<sub>n</sub>), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

#### For Release 5 HSDPA Data Devices:

| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ (SF) | $\beta_c / \beta_d$ | $\beta_{hs}$ | CM/dB |
|----------|-----------|-----------|----------------|---------------------|--------------|-------|
| 1        | 2/15      | 15/15     | 64             | 2/15                | 4/15         | 0.0   |
| 2        | 12/15     | 15/15     | 64             | 12/15               | 24/25        | 1.0   |
| 3        | 15/15     | 8/15      | 64             | 15/8                | 30/15        | 1.5   |
| 4        | 15/15     | 4/15      | 64             | 15/4                | 30/15        | 1.5   |

#### For Release 6 HSPA Data Devices

| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ (SF) | $\beta_c / \beta_d$ | $\beta_{hs}$ | $\beta_{ec}$ | $\beta_{ed}$                               | $\beta_{ed}$ (SF) | $\beta_{ed}$ (codes) | CM (dB) | MPR (dB) | AG Index | E-TFCI |
|----------|-----------|-----------|----------------|---------------------|--------------|--------------|--------------------------------------------|-------------------|----------------------|---------|----------|----------|--------|
| 1        | 11/15     | 15/15     | 64             | 11/15               | 22/15        | 209/225      | 1039/225                                   | 4                 | 1                    | 1.0     | 0.0      | 20       | 75     |
| 2        | 6/15      | 15/15     | 64             | 6/15                | 12/15        | 12/15        | 12/15                                      | 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         | 4/15         | 56/75                                      | 4                 | 1                    | 3.0     | 2.0      | 17       | 71     |
| 5        | 15/15     | 15/15     | 64             | 15/15               | 24/15        | 30/15        | 134/15                                     | 4                 | 1                    | 1.0     | 0.0      | 21       | 81     |



#### 9.4. SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Anristu MT8820C. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the Anristu MT8820C. It is performed for conducted power and SAR based on the KDB941225 D05.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation

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 among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

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 in 1) and 2) 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.

#### 9.5. Bluetooth & WLAN Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.



## 9.6. Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in Section 14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

## 10. Conducted Output Power

**Table 10.1: Summary of power level - WWAN antenna**

|                         |                                        |                                                      |
|-------------------------|----------------------------------------|------------------------------------------------------|
| Receiver on<br>(Head)   | Receiver off + Hotspot on<br>(Hotspot) | Receiver off + Hotspot off<br>(Body-Worn/ Extremity) |
| <b>Power Level A1</b>   | <b>Power Level B1</b>                  | <b>Power Level C1</b>                                |
| (For UL CA & ENDC mode) |                                        |                                                      |
| Receiver on<br>(Head)   | Receiver off + Hotspot on<br>(Hotspot) | Receiver off + Hotspot off<br>(Body-Worn/ Extremity) |
| <b>Power Level A2</b>   | <b>Power Level B2</b>                  | <b>Power Level C2</b>                                |

**Table 10.2: Summary of power level - WLAN antenna**

|                                         |                                        |                                                      |
|-----------------------------------------|----------------------------------------|------------------------------------------------------|
| Receiver on<br>(Head)                   | Receiver off + Hotspot on<br>(Hotspot) | Receiver off + Hotspot off<br>(Body-Worn/ Extremity) |
| <b>Power Level D1</b>                   | <b>Power Level E1</b>                  | <b>Power Level F1</b>                                |
| (WLAN + WWAN simultaneous transmission) |                                        |                                                      |
| Receiver on<br>(Head)                   | Receiver off + Hotspot on<br>(Hotspot) | Receiver off + Hotspot off<br>(Body-Worn/ Extremity) |
| <b>Power Level D2</b>                   | <b>Power Level E2</b>                  | <b>Power Level F2</b>                                |

## 10.1. WCDMA Measurement result

Table 10.3: The conducted power measurement results WCDMA

| Power Level A1 |       |              |                        |                      |                        |
|----------------|-------|--------------|------------------------|----------------------|------------------------|
| Item           | band  | WCDMA Band 2 |                        |                      |                        |
|                | ARFCN | Tune up      | Ch.9538<br>(1907.6MHz) | Ch.9400<br>(1880MHz) | Ch.9262<br>(1852.4MHz) |
| WCDMA          | \     | 24.0         | 23.10                  | 23.10                | 23.10                  |
| HSUPA          | 1     | 21.5         | 20.20                  | 20.60                | 20.50                  |
|                | 2     | 21.0         | 20.10                  | 20.20                | 20.20                  |
|                | 3     | 22.0         | 21.00                  | 21.10                | 21.10                  |
|                | 4     | 20.5         | 19.70                  | 19.70                | 19.70                  |
|                | 5     | 22.0         | 21.00                  | 21.00                | 21.00                  |
| HSDPA          | 1     | 23.0         | 22.10                  | 22.10                | 22.10                  |
|                | 2     | 23.0         | 22.10                  | 22.10                | 22.10                  |
|                | 3     | 22.5         | 21.60                  | 21.60                | 21.60                  |
|                | 4     | 22.5         | 21.60                  | 21.60                | 21.60                  |
| DC-HSDPA       | 1     | 23.0         | 22.00                  | 22.00                | 22.10                  |
|                | 2     | 23.0         | 21.90                  | 22.00                | 22.10                  |
|                | 3     | 22.5         | 21.50                  | 21.50                | 21.60                  |
|                | 4     | 22.5         | 21.50                  | 21.50                | 21.60                  |
| Power Level B1 |       |              |                        |                      |                        |
| Item           | band  | WCDMA Band 2 |                        |                      |                        |
|                | ARFCN | Tune up      | Ch.9538<br>(1907.6MHz) | Ch.9400<br>(1880MHz) | Ch.9262<br>(1852.4MHz) |
| WCDMA          | \     | 21.0         | 20.10                  | 20.10                | 20.10                  |
| HSUPA          | 1     | 18.5         | 17.60                  | 17.50                | 17.50                  |
|                | 2     | 18.0         | 17.10                  | 17.10                | 17.10                  |
|                | 3     | 19.0         | 18.10                  | 18.00                | 18.10                  |
|                | 4     | 17.5         | 16.60                  | 16.60                | 16.70                  |
|                | 5     | 19.0         | 18.10                  | 18.00                | 18.00                  |
| HSDPA          | 1     | 20.0         | 19.10                  | 19.20                | 19.10                  |
|                | 2     | 20.0         | 19.10                  | 19.10                | 19.10                  |
|                | 3     | 19.5         | 18.60                  | 18.60                | 18.60                  |
|                | 4     | 19.5         | 18.60                  | 18.60                | 18.60                  |
| DC-HSDPA       | 1     | 20.0         | 19.10                  | 19.10                | 19.10                  |
|                | 2     | 20.0         | 19.00                  | 19.00                | 19.00                  |
|                | 3     | 19.5         | 18.50                  | 18.60                | 18.60                  |
|                | 4     | 19.5         | 18.40                  | 18.50                | 18.60                  |

| Power Level C1 |       |              |                        |                        |                        |
|----------------|-------|--------------|------------------------|------------------------|------------------------|
| Item           | band  | WCDMA Band 2 |                        |                        |                        |
|                | ARFCN | Tune up      | Ch.9538<br>(1907.6MHz) | Ch.9400<br>(1880MHz)   | Ch.9262<br>(1852.4MHz) |
| WCDMA          | \     | 22.0         | 21.00                  | 21.00                  | 21.00                  |
| HSUPA          | 1     | 19.5         | 18.60                  | 18.70                  | 18.60                  |
|                | 2     | 19.0         | 18.10                  | 18.20                  | 18.10                  |
|                | 3     | 20.0         | 19.10                  | 19.20                  | 19.10                  |
|                | 4     | 18.5         | 17.60                  | 17.70                  | 17.70                  |
|                | 5     | 20.0         | 19.10                  | 19.10                  | 19.10                  |
| HSDPA          | 1     | 21.0         | 20.10                  | 20.20                  | 20.10                  |
|                | 2     | 21.0         | 20.10                  | 20.20                  | 20.20                  |
|                | 3     | 20.5         | 19.60                  | 19.70                  | 19.70                  |
|                | 4     | 20.5         | 19.60                  | 19.60                  | 19.70                  |
| DC-HSDPA       | 1     | 21.0         | 20.00                  | 20.20                  | 20.10                  |
|                | 2     | 21.0         | 20.00                  | 20.10                  | 20.10                  |
|                | 3     | 20.5         | 19.60                  | 19.60                  | 19.70                  |
|                | 4     | 20.5         | 19.50                  | 19.60                  | 19.70                  |
| Power Level A1 |       |              |                        |                        |                        |
| Item           | band  | WCDMA Band 4 |                        |                        |                        |
|                | ARFCN | Tune up      | Ch.1513<br>(1752.6MHz) | Ch.1413<br>(1732.6MHz) | Ch.1312<br>(1712.4MHz) |
| WCDMA          | \     | 24.0         | 23.00                  | 23.10                  | 23.20                  |
| HSUPA          | 1     | 21.5         | 20.10                  | 20.50                  | 20.70                  |
|                | 2     | 21.0         | 20.00                  | 20.20                  | 20.30                  |
|                | 3     | 22.0         | 20.80                  | 21.10                  | 21.20                  |
|                | 4     | 20.5         | 19.50                  | 19.80                  | 19.90                  |
|                | 5     | 22.0         | 21.10                  | 21.10                  | 21.10                  |
| HSDPA          | 1     | 23.0         | 22.00                  | 22.10                  | 22.20                  |
|                | 2     | 23.0         | 22.00                  | 22.00                  | 22.10                  |
|                | 3     | 22.5         | 21.50                  | 21.60                  | 21.70                  |
|                | 4     | 22.5         | 21.40                  | 21.50                  | 21.60                  |
| DC-HSDPA       | 1     | 23.0         | 22.00                  | 22.00                  | 22.10                  |
|                | 2     | 23.0         | 22.00                  | 22.00                  | 22.00                  |
|                | 3     | 22.5         | 21.50                  | 21.50                  | 21.50                  |
|                | 4     | 22.5         | 21.40                  | 21.50                  | 21.50                  |

| Power Level B1 |       |              |                        |                        |                        |
|----------------|-------|--------------|------------------------|------------------------|------------------------|
| Item           | band  | WCDMA Band 4 |                        |                        |                        |
|                | ARFCN | Tune up      | Ch.1513<br>(1752.6MHz) | Ch.1413<br>(1732.6MHz) | Ch.1312<br>(1712.4MHz) |
| WCDMA          | \     | 21.0         | 20.00                  | 20.10                  | 20.20                  |
| HSUPA          | 1     | 18.5         | 17.50                  | 17.50                  | 17.80                  |
|                | 2     | 18.0         | 17.00                  | 17.10                  | 17.30                  |
|                | 3     | 19.0         | 18.10                  | 18.00                  | 18.20                  |
|                | 4     | 17.5         | 16.60                  | 16.60                  | 16.80                  |
|                | 5     | 19.0         | 17.90                  | 18.10                  | 18.20                  |
| HSDPA          | 1     | 20.0         | 18.50                  | 18.60                  | 18.40                  |
|                | 2     | 20.0         | 18.50                  | 18.60                  | 18.50                  |
|                | 3     | 19.5         | 18.10                  | 18.10                  | 18.10                  |
|                | 4     | 19.5         | 18.00                  | 18.10                  | 18.20                  |
| DC-HSDPA       | 1     | 20.0         | 18.60                  | 18.60                  | 18.60                  |
|                | 2     | 20.0         | 18.40                  | 18.50                  | 18.60                  |
|                | 3     | 19.5         | 18.00                  | 18.10                  | 18.20                  |
|                | 4     | 19.5         | 18.10                  | 18.10                  | 18.10                  |
| Power Level C1 |       |              |                        |                        |                        |
| Item           | band  | WCDMA Band 4 |                        |                        |                        |
|                | ARFCN | Tune up      | Ch.1513<br>(1752.6MHz) | Ch.1413<br>(1732.6MHz) | Ch.1312<br>(1712.4MHz) |
| WCDMA          | \     | 22.5         | 21.50                  | 21.50                  | 21.60                  |
| HSUPA          | 1     | 20.0         | 19.10                  | 19.20                  | 19.30                  |
|                | 2     | 19.5         | 18.60                  | 18.60                  | 18.80                  |
|                | 3     | 20.5         | 19.60                  | 19.70                  | 19.80                  |
|                | 4     | 19.0         | 18.10                  | 18.20                  | 18.30                  |
|                | 5     | 20.5         | 19.50                  | 19.70                  | 19.70                  |
| HSDPA          | 1     | 21.5         | 20.40                  | 20.50                  | 20.70                  |
|                | 2     | 21.5         | 20.40                  | 20.50                  | 20.60                  |
|                | 3     | 21.0         | 20.10                  | 20.20                  | 20.30                  |
|                | 4     | 21.0         | 20.10                  | 20.20                  | 20.30                  |
| DC-HSDPA       | 1     | 21.5         | 20.50                  | 20.50                  | 20.50                  |
|                | 2     | 21.5         | 20.40                  | 20.50                  | 20.50                  |
|                | 3     | 21.0         | 20.00                  | 20.10                  | 20.20                  |
|                | 4     | 21.0         | 20.00                  | 20.10                  | 20.10                  |

| Power Level A1/B1/C1 |       |              |                       |                       |                       |
|----------------------|-------|--------------|-----------------------|-----------------------|-----------------------|
| Item                 | band  | WCDMA Band 5 |                       |                       |                       |
|                      | ARFCN | Tune up      | Ch.4233<br>(846.6MHz) | Ch.4183<br>(836.6MHz) | Ch.4132<br>(826.4MHz) |
| WCDMA                | \     | 24.0         | 23.30                 | 23.30                 | 23.30                 |
| HSUPA                | 1     | 21.5         | 20.30                 | 20.80                 | 20.90                 |
|                      | 2     | 21.0         | 20.30                 | 20.30                 | 20.30                 |
|                      | 3     | 22.0         | 21.30                 | 21.30                 | 21.30                 |
|                      | 4     | 20.5         | 19.80                 | 19.90                 | 19.80                 |
|                      | 5     | 22.0         | 21.30                 | 21.30                 | 21.30                 |
| HSDPA                | 1     | 23.0         | 22.30                 | 22.30                 | 22.30                 |
|                      | 2     | 23.0         | 22.30                 | 22.30                 | 22.30                 |
|                      | 3     | 22.5         | 21.80                 | 21.80                 | 21.90                 |
|                      | 4     | 22.5         | 21.80                 | 21.80                 | 21.80                 |
| DC-HSDPA             | 1     | 23.0         | 22.10                 | 22.20                 | 22.30                 |
|                      | 2     | 23.0         | 22.20                 | 22.20                 | 22.20                 |
|                      | 3     | 22.5         | 21.70                 | 21.80                 | 21.90                 |
|                      | 4     | 22.5         | 21.70                 | 21.70                 | 21.80                 |

## 10.2. LTE Measurement result

**Table 10.4: The conducted Power for LTE**

| <b>Ant.5 - Power Level A1</b> |                               |                            |                                  |              |              |                   |              |              |
|-------------------------------|-------------------------------|----------------------------|----------------------------------|--------------|--------------|-------------------|--------------|--------------|
| <b>LTE Band 2</b>             |                               |                            | <b>Actual output Power (dBm)</b> |              |              | <b>Tune up</b>    |              |              |
| <b>Band<br/>-width</b>        | <b>RB No. /<br/>RB offset</b> | <b>Frequency<br/>(MHz)</b> | <b>Modulation</b>                |              |              | <b>Modulation</b> |              |              |
|                               |                               |                            | <b>QPSK</b>                      | <b>16QAM</b> | <b>64QAM</b> | <b>QPSK</b>       | <b>16QAM</b> | <b>64QAM</b> |
| 1.4 MHz                       | 1RB_5                         | 1909.3                     | 22.97                            | 22.23        | 21.11        | 24.5              | 23.5         | 22.5         |
|                               |                               | 1880.0                     | 22.98                            | 22.18        | 20.99        |                   |              |              |
|                               |                               | 1850.7                     | 22.99                            | 22.20        | 21.04        |                   |              |              |
|                               | 1RB_3                         | 1909.3                     | 22.99                            | 22.27        | 21.08        |                   |              |              |
|                               |                               | 1880.0                     | 23.02                            | 22.22        | 21.06        |                   |              |              |
|                               |                               | 1850.7                     | 22.99                            | 22.26        | 21.07        |                   |              |              |
|                               | 1RB_0                         | 1909.3                     | 22.98                            | 22.23        | 21.10        |                   |              |              |
|                               |                               | 1880.0                     | 23.02                            | 22.20        | 21.06        |                   |              |              |
|                               |                               | 1850.7                     | 23.00                            | 22.29        | 21.07        |                   |              |              |
|                               | 3RB_3                         | 1909.3                     | 23.05                            | 22.05        | 20.95        |                   |              |              |
|                               |                               | 1880.0                     | 23.03                            | 22.04        | 20.97        |                   |              |              |
|                               |                               | 1850.7                     | 23.02                            | 21.96        | 21.01        |                   |              |              |
|                               | 3RB_1                         | 1909.3                     | 23.06                            | 22.09        | 21.01        |                   |              |              |
|                               |                               | 1880.0                     | 23.06                            | 22.07        | 21.05        |                   |              |              |
|                               |                               | 1850.7                     | 22.99                            | 21.98        | 21.03        |                   |              |              |
|                               | 3RB_0                         | 1909.3                     | 23.05                            | 22.06        | 20.94        |                   |              |              |
|                               |                               | 1880.0                     | 23.10                            | 22.04        | 21.03        |                   |              |              |
|                               |                               | 1850.7                     | 23.01                            | 21.98        | 21.01        |                   |              |              |
|                               | 6RB_0                         | 1909.3                     | 22.05                            | 21.14        | 20.07        | 23.5              | 22.5         | 21.5         |
|                               |                               | 1880.0                     | 22.02                            | 21.11        | 20.11        |                   |              |              |
|                               |                               | 1850.7                     | 22.04                            | 21.05        | 20.03        |                   |              |              |



| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1908.5             | 23.05                     | 22.18 | 21.03 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1880.0             | 23.04                     | 22.16 | 21.05 |            |       |       |
|                        |                       | 1851.5             | 22.99                     | 22.15 | 21.04 |            |       |       |
|                        | 1RB_7                 | 1908.5             | 23.09                     | 22.19 | 21.09 |            |       |       |
|                        |                       | 1880.0             | 23.05                     | 22.20 | 21.12 |            |       |       |
|                        |                       | 1851.5             | 23.02                     | 22.23 | 21.10 |            |       |       |
|                        | 1RB_0                 | 1908.5             | 23.13                     | 22.19 | 21.09 |            |       |       |
|                        |                       | 1880.0             | 23.02                     | 22.10 | 21.08 |            |       |       |
|                        |                       | 1851.5             | 22.98                     | 22.20 | 21.08 |            |       |       |
|                        | 8RB_7                 | 1908.5             | 21.99                     | 21.06 | 20.08 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1880.0             | 21.97                     | 21.01 | 20.05 |            |       |       |
|                        |                       | 1851.5             | 21.98                     | 21.00 | 20.09 |            |       |       |
|                        | 8RB_4                 | 1908.5             | 21.98                     | 21.11 | 20.10 |            |       |       |
|                        |                       | 1880.0             | 21.98                     | 21.02 | 20.03 |            |       |       |
|                        |                       | 1851.5             | 21.98                     | 21.02 | 20.17 |            |       |       |
|                        | 8RB_0                 | 1908.5             | 22.03                     | 21.12 | 20.11 |            |       |       |
|                        |                       | 1880.0             | 22.02                     | 21.07 | 20.09 |            |       |       |
|                        |                       | 1851.5             | 21.98                     | 21.02 | 20.11 |            |       |       |
|                        | 15RB_0                | 1908.5             | 22.00                     | 21.02 | 20.11 |            |       |       |
|                        |                       | 1880.0             | 21.95                     | 20.95 | 20.02 |            |       |       |
|                        |                       | 1851.5             | 21.98                     | 21.01 | 20.05 |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1907.5             | 23.00                     | 22.29 | 20.97 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1880.0             | 23.00                     | 22.23 | 21.07 |            |       |       |
|                        |                       | 1852.5             | 23.00                     | 22.18 | 21.14 |            |       |       |
|                        | 1RB_12                | 1907.5             | 23.14                     | 22.38 | 21.14 |            |       |       |
|                        |                       | 1880.0             | 23.09                     | 22.28 | 21.17 |            |       |       |
|                        |                       | 1852.5             | 23.06                     | 22.24 | 21.23 |            |       |       |
|                        | 1RB_0                 | 1907.5             | 23.11                     | 22.38 | 21.12 |            |       |       |
|                        |                       | 1880.0             | 23.02                     | 22.25 | 21.10 |            |       |       |
|                        |                       | 1852.5             | 23.05                     | 22.26 | 21.15 |            |       |       |
|                        | 12RB_13               | 1907.5             | 21.96                     | 20.92 | 20.06 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1880.0             | 21.99                     | 20.95 | 20.11 |            |       |       |
|                        |                       | 1852.5             | 21.99                     | 20.96 | 20.12 |            |       |       |
|                        | 12RB_6                | 1907.5             | 22.04                     | 21.01 | 20.18 |            |       |       |
|                        |                       | 1880.0             | 22.01                     | 21.02 | 20.20 |            |       |       |
|                        |                       | 1852.5             | 22.04                     | 20.99 | 20.18 |            |       |       |
|                        | 12RB_0                | 1907.5             | 22.13                     | 21.08 | 20.24 |            |       |       |
|                        |                       | 1880.0             | 22.05                     | 21.04 | 20.19 |            |       |       |
|                        |                       | 1852.5             | 22.03                     | 20.98 | 20.21 |            |       |       |
|                        | 25RB_0                | 1907.5             | 22.02                     | 21.05 | 20.10 |            |       |       |
|                        |                       | 1880.0             | 22.02                     | 21.02 | 20.10 |            |       |       |
|                        |                       | 1852.5             | 21.99                     | 21.02 | 20.10 |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1905.0             | 23.00                     | 22.16 | 21.13 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1880.0             | 22.97                     | 22.20 | 21.14 |            |       |       |
|                        |                       | 1855.0             | 22.99                     | 22.18 | 21.05 |            |       |       |
|                        | 1RB_24                | 1905.0             | 23.08                     | 22.26 | 21.23 |            |       |       |
|                        |                       | 1880.0             | 22.98                     | 22.24 | 21.14 |            |       |       |
|                        |                       | 1855.0             | 23.04                     | 22.21 | 21.09 |            |       |       |
|                        | 1RB_0                 | 1905.0             | 23.01                     | 22.24 | 21.20 |            |       |       |
|                        |                       | 1880.0             | 22.99                     | 22.20 | 21.11 |            |       |       |
|                        |                       | 1855.0             | 23.02                     | 22.19 | 20.97 |            |       |       |
|                        | 25RB_25               | 1905.0             | 21.97                     | 20.96 | 20.03 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1880.0             | 21.99                     | 20.98 | 20.03 |            |       |       |
|                        |                       | 1855.0             | 22.00                     | 20.97 | 20.09 |            |       |       |
|                        | 25RB_12               | 1905.0             | 22.03                     | 21.02 | 20.10 |            |       |       |
|                        |                       | 1880.0             | 22.00                     | 21.02 | 20.07 |            |       |       |
|                        |                       | 1855.0             | 22.03                     | 21.01 | 20.11 |            |       |       |
|                        | 25RB_0                | 1905.0             | 22.02                     | 21.04 | 20.11 |            |       |       |
|                        |                       | 1880.0             | 22.07                     | 21.06 | 20.15 |            |       |       |
|                        |                       | 1855.0             | 21.97                     | 20.99 | 20.09 |            |       |       |
|                        | 50RB_0                | 1905.0             | 21.98                     | 20.99 | 20.07 |            |       |       |
|                        |                       | 1880.0             | 22.00                     | 20.97 | 20.07 |            |       |       |
|                        |                       | 1855.0             | 22.02                     | 20.97 | 20.06 |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1902.5             | 22.98                     | 22.21 | 21.00 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1880.0             | 23.02                     | 22.19 | 21.12 |            |       |       |
|                        |                       | 1857.5             | 22.99                     | 22.06 | 21.07 |            |       |       |
|                        | 1RB_37                | 1902.5             | 23.02                     | 22.24 | 21.04 |            |       |       |
|                        |                       | 1880.0             | 23.12                     | 22.23 | 21.17 |            |       |       |
|                        |                       | 1857.5             | 23.07                     | 22.22 | 21.17 |            |       |       |
|                        | 1RB_0                 | 1902.5             | 22.93                     | 22.19 | 21.01 |            |       |       |
|                        |                       | 1880.0             | 23.09                     | 22.18 | 21.11 |            |       |       |
|                        |                       | 1857.5             | 23.04                     | 22.14 | 21.11 |            |       |       |
|                        | 36RB_38               | 1902.5             | 21.92                     | 20.96 | 20.05 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1880.0             | 21.91                     | 20.95 | 20.02 |            |       |       |
|                        |                       | 1857.5             | 21.94                     | 20.94 | 20.08 |            |       |       |
|                        | 36RB_19               | 1902.5             | 21.96                     | 21.00 | 20.12 |            |       |       |
|                        |                       | 1880.0             | 22.01                     | 21.03 | 20.08 |            |       |       |
|                        |                       | 1857.5             | 21.98                     | 20.98 | 20.10 |            |       |       |
|                        | 36RB_0                | 1902.5             | 22.00                     | 20.99 | 20.10 |            |       |       |
|                        |                       | 1880.0             | 22.04                     | 21.01 | 20.07 |            |       |       |
|                        |                       | 1857.5             | 21.92                     | 20.93 | 20.04 |            |       |       |
|                        | 75RB_0                | 1902.5             | 21.99                     | 20.96 | 20.06 |            |       |       |
|                        |                       | 1880.0             | 21.98                     | 20.96 | 20.08 |            |       |       |
|                        |                       | 1857.5             | 22.02                     | 20.97 | 20.05 |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1900.0             | 22.99                     | 22.11 | 21.02 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1880.0             | 22.97                     | 22.20 | 20.96 |            |       |       |
|                        |                       | 1860.0             | 23.01                     | 22.11 | 20.84 |            |       |       |
|                        | 1RB_50                | 1900.0             | 23.07                     | 22.29 | 21.14 |            |       |       |
|                        |                       | 1880.0             | 23.09                     | 22.29 | 21.04 |            |       |       |
|                        |                       | 1860.0             | 23.07                     | 22.18 | 20.93 |            |       |       |
|                        | 1RB_0                 | 1900.0             | 22.95                     | 22.20 | 21.02 |            |       |       |
|                        |                       | 1880.0             | 22.97                     | 22.20 | 20.98 |            |       |       |
|                        |                       | 1860.0             | 23.06                     | 22.14 | 20.92 |            |       |       |
|                        | 50RB_50               | 1900.0             | 21.88                     | 20.92 | 20.06 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1880.0             | 21.94                     | 20.91 | 20.00 |            |       |       |
|                        |                       | 1860.0             | 21.94                     | 20.93 | 20.02 |            |       |       |
|                        | 50RB_25               | 1900.0             | 21.98                     | 21.00 | 20.13 |            |       |       |
|                        |                       | 1880.0             | 21.99                     | 20.97 | 20.13 |            |       |       |
|                        |                       | 1860.0             | 22.99                     | 20.97 | 20.11 |            |       |       |
|                        | 50RB_0                | 1900.0             | 21.99                     | 20.95 | 20.07 |            |       |       |
|                        |                       | 1880.0             | 22.03                     | 21.00 | 20.16 |            |       |       |
|                        |                       | 1860.0             | 22.00                     | 20.95 | 20.05 |            |       |       |
|                        | 100RB_0               | 1900.0             | 21.98                     | 20.93 | 20.06 |            |       |       |
|                        |                       | 1880.0             | 21.96                     | 20.93 | 20.03 |            |       |       |
|                        |                       | 1860.0             | 21.99                     | 20.95 | 20.08 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1909.3             | 19.11                     | 18.39 | 17.28 | 20.5       | 19.5  | 18.5  |
|                        |                       | 1880.0             | 19.11                     | 18.41 | 17.15 |            |       |       |
|                        |                       | 1850.7             | 19.10                     | 18.42 | 17.18 |            |       |       |
|                        | 1RB_3                 | 1909.3             | 19.11                     | 18.39 | 17.22 |            |       |       |
|                        |                       | 1880.0             | 19.11                     | 18.41 | 17.16 |            |       |       |
|                        |                       | 1850.7             | 19.08                     | 18.45 | 17.18 |            |       |       |
|                        | 1RB_0                 | 1909.3             | 19.12                     | 18.40 | 17.22 |            |       |       |
|                        |                       | 1880.0             | 19.11                     | 18.43 | 17.16 |            |       |       |
|                        |                       | 1850.7             | 19.08                     | 18.39 | 17.16 |            |       |       |
|                        | 3RB_3                 | 1909.3             | 19.15                     | 18.13 | 17.22 |            |       |       |
|                        |                       | 1880.0             | 19.10                     | 18.08 | 17.19 |            |       |       |
|                        |                       | 1850.7             | 19.11                     | 18.13 | 17.16 |            |       |       |
|                        | 3RB_1                 | 1909.3             | 19.15                     | 18.15 | 17.23 |            |       |       |
|                        |                       | 1880.0             | 19.13                     | 18.11 | 17.21 |            |       |       |
|                        |                       | 1850.7             | 19.11                     | 18.13 | 17.16 |            |       |       |
|                        | 3RB_0                 | 1909.3             | 19.15                     | 18.15 | 17.24 |            |       |       |
|                        |                       | 1880.0             | 19.15                     | 18.14 | 17.24 |            |       |       |
|                        |                       | 1850.7             | 19.13                     | 18.15 | 17.18 |            |       |       |
|                        | 6RB_0                 | 1909.3             | 18.12                     | 17.19 | 16.07 | 19.5       | 18.5  | 17.5  |
|                        |                       | 1880.0             | 18.14                     | 17.21 | 16.05 |            |       |       |
|                        |                       | 1850.7             | 18.12                     | 17.17 | 16.03 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1908.5             | 19.10                     | 18.38 | 17.30 | 20.5       | 19.5  | 18.5  |
|                        |                       | 1880.0             | 19.08                     | 18.43 | 17.26 |            |       |       |
|                        |                       | 1851.5             | 19.07                     | 18.46 | 17.27 |            |       |       |
|                        | 1RB_7                 | 1908.5             | 19.14                     | 18.42 | 17.28 |            |       |       |
|                        |                       | 1880.0             | 19.13                     | 18.46 | 17.31 |            |       |       |
|                        |                       | 1851.5             | 19.12                     | 18.48 | 17.32 |            |       |       |
|                        | 1RB_0                 | 1908.5             | 19.18                     | 18.49 | 17.32 |            |       |       |
|                        |                       | 1880.0             | 19.10                     | 18.45 | 17.29 |            |       |       |
|                        |                       | 1851.5             | 19.09                     | 18.45 | 17.30 |            |       |       |
|                        | 8RB_7                 | 1908.5             | 18.12                     | 17.17 | 16.09 | 19.5       | 18.5  | 17.5  |
|                        |                       | 1880.0             | 18.06                     | 17.12 | 16.07 |            |       |       |
|                        |                       | 1851.5             | 18.11                     | 17.15 | 16.12 |            |       |       |
|                        | 8RB_4                 | 1908.5             | 18.14                     | 17.21 | 16.12 |            |       |       |
|                        |                       | 1880.0             | 18.09                     | 17.14 | 16.09 |            |       |       |
|                        |                       | 1851.5             | 18.12                     | 17.17 | 16.10 |            |       |       |
|                        | 8RB_0                 | 1908.5             | 18.13                     | 17.19 | 16.12 |            |       |       |
|                        |                       | 1880.0             | 18.15                     | 17.16 | 16.13 |            |       |       |
|                        |                       | 1851.5             | 18.10                     | 17.15 | 16.06 |            |       |       |
|                        | 15RB_0                | 1908.5             | 18.11                     | 17.13 | 16.08 |            |       |       |
|                        |                       | 1880.0             | 18.08                     | 17.10 | 16.05 |            |       |       |
|                        |                       | 1851.5             | 18.12                     | 17.15 | 16.08 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1907.5             | 19.13                     | 18.35 | 17.25 | 20.5       | 19.5  | 18.5  |
|                        |                       | 1880.0             | 19.13                     | 18.41 | 17.27 |            |       |       |
|                        |                       | 1852.5             | 19.11                     | 18.39 | 17.26 |            |       |       |
|                        | 1RB_12                | 1907.5             | 19.24                     | 18.48 | 17.31 |            |       |       |
|                        |                       | 1880.0             | 19.14                     | 18.43 | 17.32 |            |       |       |
|                        |                       | 1852.5             | 19.13                     | 18.45 | 17.33 |            |       |       |
|                        | 1RB_0                 | 1907.5             | 19.17                     | 18.44 | 17.26 |            |       |       |
|                        |                       | 1880.0             | 19.12                     | 18.43 | 17.28 |            |       |       |
|                        |                       | 1852.5             | 19.15                     | 18.44 | 17.32 |            |       |       |
|                        | 12RB_13               | 1907.5             | 18.08                     | 17.05 | 16.04 | 19.5       | 18.5  | 17.5  |
|                        |                       | 1880.0             | 18.12                     | 17.07 | 16.05 |            |       |       |
|                        |                       | 1852.5             | 18.11                     | 17.11 | 16.09 |            |       |       |
|                        | 12RB_6                | 1907.5             | 18.14                     | 17.13 | 16.11 |            |       |       |
|                        |                       | 1880.0             | 18.15                     | 17.11 | 16.10 |            |       |       |
|                        |                       | 1852.5             | 18.14                     | 17.09 | 16.11 |            |       |       |
|                        | 12RB_0                | 1907.5             | 18.25                     | 17.21 | 16.18 |            |       |       |
|                        |                       | 1880.0             | 18.18                     | 17.15 | 16.16 |            |       |       |
|                        |                       | 1852.5             | 18.18                     | 17.12 | 16.13 |            |       |       |
|                        | 25RB_0                | 1907.5             | 18.15                     | 17.13 | 16.09 |            |       |       |
|                        |                       | 1880.0             | 18.15                     | 17.14 | 16.12 |            |       |       |
|                        |                       | 1852.5             | 18.12                     | 17.08 | 16.06 |            |       |       |



| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1905.0             | 19.14                     | 18.44 | 17.23 | 20.5       | 19.5  | 18.5  |
|                        |                       | 1880.0             | 19.13                     | 18.40 | 17.22 |            |       |       |
|                        |                       | 1855.0             | 19.10                     | 18.33 | 17.21 |            |       |       |
|                        | 1RB_24                | 1905.0             | 19.23                     | 18.51 | 17.31 |            |       |       |
|                        |                       | 1880.0             | 19.15                     | 18.46 | 17.26 |            |       |       |
|                        |                       | 1855.0             | 19.18                     | 18.47 | 17.25 |            |       |       |
|                        | 1RB_0                 | 1905.0             | 19.19                     | 18.46 | 17.27 |            |       |       |
|                        |                       | 1880.0             | 19.14                     | 18.43 | 17.22 |            |       |       |
|                        |                       | 1855.0             | 19.16                     | 18.44 | 17.26 |            |       |       |
|                        | 25RB_25               | 1905.0             | 18.09                     | 17.10 | 16.07 | 19.5       | 18.5  | 17.5  |
|                        |                       | 1880.0             | 18.09                     | 17.08 | 16.05 |            |       |       |
|                        |                       | 1855.0             | 18.12                     | 17.09 | 16.07 |            |       |       |
|                        | 25RB_12               | 1905.0             | 18.15                     | 17.16 | 16.11 |            |       |       |
|                        |                       | 1880.0             | 18.11                     | 17.12 | 16.08 |            |       |       |
|                        |                       | 1855.0             | 18.15                     | 17.15 | 16.10 |            |       |       |
|                        | 25RB_0                | 1905.0             | 18.15                     | 17.11 | 16.08 |            |       |       |
|                        |                       | 1880.0             | 18.18                     | 17.14 | 16.13 |            |       |       |
|                        |                       | 1855.0             | 18.10                     | 17.11 | 16.04 |            |       |       |
|                        | 50RB_0                | 1905.0             | 18.15                     | 17.13 | 16.07 |            |       |       |
|                        |                       | 1880.0             | 18.13                     | 17.13 | 16.09 |            |       |       |
|                        |                       | 1855.0             | 18.11                     | 17.12 | 16.08 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1902.5             | 19.07                     | 18.39 | 17.23 | 20.5       | 19.5  | 18.5  |
|                        |                       | 1880.0             | 19.07                     | 18.37 | 17.23 |            |       |       |
|                        |                       | 1857.5             | 19.07                     | 18.32 | 17.11 |            |       |       |
|                        | 1RB_37                | 1902.5             | 19.13                     | 18.41 | 17.30 |            |       |       |
|                        |                       | 1880.0             | 19.13                     | 18.40 | 17.20 |            |       |       |
|                        |                       | 1857.5             | 19.14                     | 18.44 | 17.21 |            |       |       |
|                        | 1RB_0                 | 1902.5             | 19.01                     | 18.34 | 17.19 |            |       |       |
|                        |                       | 1880.0             | 19.11                     | 18.35 | 17.22 |            |       |       |
|                        |                       | 1857.5             | 19.11                     | 18.36 | 17.24 |            |       |       |
|                        | 36RB_38               | 1902.5             | 18.02                     | 17.07 | 16.06 | 19.5       | 18.5  | 17.5  |
|                        |                       | 1880.0             | 18.01                     | 17.06 | 16.04 |            |       |       |
|                        |                       | 1857.5             | 18.08                     | 17.06 | 16.08 |            |       |       |
|                        | 36RB_19               | 1902.5             | 18.13                     | 17.08 | 16.09 |            |       |       |
|                        |                       | 1880.0             | 18.15                     | 17.10 | 16.10 |            |       |       |
|                        |                       | 1857.5             | 18.10                     | 17.06 | 16.06 |            |       |       |
|                        | 36RB_0                | 1902.5             | 18.10                     | 17.04 | 16.06 |            |       |       |
|                        |                       | 1880.0             | 18.08                     | 17.12 | 16.11 |            |       |       |
|                        |                       | 1857.5             | 18.05                     | 17.10 | 16.08 |            |       |       |
|                        | 75RB_0                | 1902.5             | 18.13                     | 17.10 | 16.04 |            |       |       |
|                        |                       | 1880.0             | 18.09                     | 17.06 | 16.06 |            |       |       |
|                        |                       | 1857.5             | 18.09                     | 17.08 | 16.06 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1900.0             | 19.06                     | 18.34 | 17.17 | 20.5       | 19.5  | 18.5  |
|                        |                       | 1880.0             | 19.06                     | 18.30 | 17.20 |            |       |       |
|                        |                       | 1860.0             | 19.02                     | 18.28 | 17.16 |            |       |       |
|                        | 1RB_50                | 1900.0             | 19.15                     | 18.47 | 17.28 |            |       |       |
|                        |                       | 1880.0             | 19.17                     | 18.42 | 17.29 |            |       |       |
|                        |                       | 1860.0             | 19.13                     | 18.43 | 17.29 |            |       |       |
|                        | 1RB_0                 | 1900.0             | 19.08                     | 18.36 | 17.20 |            |       |       |
|                        |                       | 1880.0             | 19.06                     | 18.33 | 17.23 |            |       |       |
|                        |                       | 1860.0             | 19.10                     | 18.39 | 17.26 |            |       |       |
|                        | 50RB_50               | 1900.0             | 18.13                     | 17.10 | 16.08 | 19.5       | 18.5  | 17.5  |
|                        |                       | 1880.0             | 18.07                     | 17.07 | 16.03 |            |       |       |
|                        |                       | 1860.0             | 18.12                     | 17.09 | 16.08 |            |       |       |
|                        | 50RB_25               | 1900.0             | 18.12                     | 17.14 | 16.12 |            |       |       |
|                        |                       | 1880.0             | 18.13                     | 17.15 | 16.12 |            |       |       |
|                        |                       | 1860.0             | 18.12                     | 17.12 | 16.09 |            |       |       |
|                        | 50RB_0                | 1900.0             | 18.15                     | 17.09 | 16.06 |            |       |       |
|                        |                       | 1880.0             | 18.17                     | 17.14 | 16.07 |            |       |       |
|                        |                       | 1860.0             | 18.15                     | 17.10 | 16.05 |            |       |       |
|                        | 100RB_0               | 1900.0             | 18.09                     | 17.08 | 16.07 |            |       |       |
|                        |                       | 1880.0             | 18.07                     | 17.02 | 16.06 |            |       |       |
|                        |                       | 1860.0             | 18.11                     | 17.06 | 16.05 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1909.3             | 20.13                     | 19.40 | 18.25 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1880.0             | 20.12                     | 19.42 | 18.33 |            |       |       |
|                        |                       | 1850.7             | 20.14                     | 19.41 | 18.29 |            |       |       |
|                        | 1RB_3                 | 1909.3             | 20.14                     | 19.41 | 18.31 |            |       |       |
|                        |                       | 1880.0             | 20.14                     | 19.41 | 18.33 |            |       |       |
|                        |                       | 1850.7             | 20.14                     | 19.43 | 18.35 |            |       |       |
|                        | 1RB_0                 | 1909.3             | 20.15                     | 19.42 | 18.30 |            |       |       |
|                        |                       | 1880.0             | 20.14                     | 19.40 | 18.34 |            |       |       |
|                        |                       | 1850.7             | 20.15                     | 19.42 | 18.33 |            |       |       |
|                        | 3RB_3                 | 1909.3             | 20.17                     | 19.15 | 18.28 |            |       |       |
|                        |                       | 1880.0             | 20.12                     | 19.06 | 18.21 |            |       |       |
|                        |                       | 1850.7             | 20.12                     | 19.10 | 18.22 |            |       |       |
|                        | 3RB_1                 | 1909.3             | 20.17                     | 19.17 | 18.29 |            |       |       |
|                        |                       | 1880.0             | 20.14                     | 19.13 | 18.27 |            |       |       |
|                        |                       | 1850.7             | 20.13                     | 19.10 | 18.24 |            |       |       |
|                        | 3RB_0                 | 1909.3             | 20.18                     | 19.18 | 18.27 |            |       |       |
|                        |                       | 1880.0             | 20.16                     | 19.13 | 18.27 |            |       |       |
|                        |                       | 1850.7             | 20.13                     | 19.11 | 18.24 |            |       |       |
|                        | 6RB_0                 | 1909.3             | 19.13                     | 18.19 | 17.12 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1880.0             | 19.16                     | 18.22 | 17.11 |            |       |       |
|                        |                       | 1850.7             | 19.11                     | 18.16 | 17.09 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1908.5             | 20.13                     | 19.43 | 18.28 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1880.0             | 20.11                     | 19.44 | 18.31 |            |       |       |
|                        |                       | 1851.5             | 20.14                     | 19.45 | 18.33 |            |       |       |
|                        | 1RB_7                 | 1908.5             | 20.14                     | 19.42 | 18.29 |            |       |       |
|                        |                       | 1880.0             | 20.14                     | 19.43 | 18.34 |            |       |       |
|                        |                       | 1851.5             | 20.13                     | 19.47 | 18.40 |            |       |       |
|                        | 1RB_0                 | 1908.5             | 20.19                     | 19.46 | 18.33 |            |       |       |
|                        |                       | 1880.0             | 20.13                     | 19.45 | 18.33 |            |       |       |
|                        |                       | 1851.5             | 20.14                     | 19.47 | 18.36 |            |       |       |
|                        | 8RB_7                 | 1908.5             | 19.11                     | 18.17 | 17.15 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1880.0             | 19.10                     | 18.15 | 17.12 |            |       |       |
|                        |                       | 1851.5             | 19.12                     | 18.19 | 17.16 |            |       |       |
|                        | 8RB_4                 | 1908.5             | 19.13                     | 18.20 | 17.15 |            |       |       |
|                        |                       | 1880.0             | 19.12                     | 18.16 | 17.14 |            |       |       |
|                        |                       | 1851.5             | 19.12                     | 18.17 | 17.16 |            |       |       |
|                        | 8RB_0                 | 1908.5             | 19.16                     | 18.23 | 17.18 |            |       |       |
|                        |                       | 1880.0             | 19.13                     | 18.17 | 17.16 |            |       |       |
|                        |                       | 1851.5             | 19.13                     | 18.18 | 17.14 |            |       |       |
|                        | 15RB_0                | 1908.5             | 19.13                     | 18.16 | 17.13 |            |       |       |
|                        |                       | 1880.0             | 19.09                     | 18.11 | 17.10 |            |       |       |
|                        |                       | 1851.5             | 19.13                     | 18.15 | 17.13 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1907.5             | 20.18                     | 19.42 | 18.30 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1880.0             | 20.14                     | 19.39 | 18.26 |            |       |       |
|                        |                       | 1852.5             | 20.16                     | 19.44 | 18.26 |            |       |       |
|                        | 1RB_12                | 1907.5             | 20.25                     | 19.49 | 18.39 |            |       |       |
|                        |                       | 1880.0             | 20.17                     | 19.40 | 18.32 |            |       |       |
|                        |                       | 1852.5             | 20.17                     | 19.47 | 18.29 |            |       |       |
|                        | 1RB_0                 | 1907.5             | 20.24                     | 19.47 | 18.36 |            |       |       |
|                        |                       | 1880.0             | 20.18                     | 19.40 | 18.29 |            |       |       |
|                        |                       | 1852.5             | 20.15                     | 19.45 | 18.30 |            |       |       |
|                        | 12RB_13               | 1907.5             | 19.11                     | 18.08 | 17.10 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1880.0             | 19.11                     | 18.09 | 17.14 |            |       |       |
|                        |                       | 1852.5             | 19.13                     | 18.10 | 17.12 |            |       |       |
|                        | 12RB_6                | 1907.5             | 19.17                     | 18.17 | 17.20 |            |       |       |
|                        |                       | 1880.0             | 19.18                     | 18.15 | 17.16 |            |       |       |
|                        |                       | 1852.5             | 19.18                     | 18.13 | 17.17 |            |       |       |
|                        | 12RB_0                | 1907.5             | 19.24                     | 18.24 | 17.25 |            |       |       |
|                        |                       | 1880.0             | 19.19                     | 18.20 | 17.18 |            |       |       |
|                        |                       | 1852.5             | 19.17                     | 18.19 | 17.18 |            |       |       |
|                        | 25RB_0                | 1907.5             | 19.16                     | 18.17 | 17.14 |            |       |       |
|                        |                       | 1880.0             | 19.18                     | 18.16 | 17.13 |            |       |       |
|                        |                       | 1852.5             | 19.17                     | 18.12 | 17.12 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1905.0             | 20.13                     | 19.46 | 18.27 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1880.0             | 20.15                     | 19.44 | 18.31 |            |       |       |
|                        |                       | 1855.0             | 20.14                     | 19.41 | 18.26 |            |       |       |
|                        | 1RB_24                | 1905.0             | 20.22                     | 19.55 | 18.39 |            |       |       |
|                        |                       | 1880.0             | 20.18                     | 19.51 | 18.34 |            |       |       |
|                        |                       | 1855.0             | 20.17                     | 19.48 | 18.28 |            |       |       |
|                        | 1RB_0                 | 1905.0             | 20.22                     | 19.52 | 18.39 |            |       |       |
|                        |                       | 1880.0             | 20.16                     | 19.45 | 18.30 |            |       |       |
|                        |                       | 1855.0             | 20.19                     | 19.45 | 18.33 |            |       |       |
|                        | 25RB_25               | 1905.0             | 19.12                     | 18.09 | 17.07 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1880.0             | 19.11                     | 18.12 | 17.07 |            |       |       |
|                        |                       | 1855.0             | 19.15                     | 18.11 | 17.11 |            |       |       |
|                        | 25RB_12               | 1905.0             | 19.17                     | 18.20 | 17.15 |            |       |       |
|                        |                       | 1880.0             | 19.13                     | 18.14 | 17.13 |            |       |       |
|                        |                       | 1855.0             | 19.16                     | 18.15 | 17.15 |            |       |       |
|                        | 25RB_0                | 1905.0             | 19.14                     | 18.17 | 17.13 |            |       |       |
|                        |                       | 1880.0             | 19.19                     | 18.21 | 17.17 |            |       |       |
|                        |                       | 1855.0             | 19.14                     | 18.16 | 17.13 |            |       |       |
|                        | 50RB_0                | 1905.0             | 19.19                     | 18.15 | 17.12 |            |       |       |
|                        |                       | 1880.0             | 19.18                     | 18.15 | 17.10 |            |       |       |
|                        |                       | 1855.0             | 19.13                     | 18.12 | 17.13 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1902.5             | 20.10                     | 19.43 | 18.27 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1880.0             | 20.08                     | 19.45 | 18.26 |            |       |       |
|                        |                       | 1857.5             | 20.09                     | 19.40 | 18.21 |            |       |       |
|                        | 1RB_37                | 1902.5             | 20.13                     | 19.50 | 18.31 |            |       |       |
|                        |                       | 1880.0             | 20.14                     | 19.52 | 18.34 |            |       |       |
|                        |                       | 1857.5             | 20.17                     | 19.52 | 18.33 |            |       |       |
|                        | 1RB_0                 | 1902.5             | 20.09                     | 19.44 | 18.28 |            |       |       |
|                        |                       | 1880.0             | 20.11                     | 19.46 | 18.32 |            |       |       |
|                        |                       | 1857.5             | 20.13                     | 19.50 | 18.28 |            |       |       |
|                        | 36RB_38               | 1902.5             | 19.13                     | 18.10 | 17.09 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1880.0             | 19.07                     | 18.06 | 17.05 |            |       |       |
|                        |                       | 1857.5             | 19.08                     | 18.13 | 17.08 |            |       |       |
|                        | 36RB_19               | 1902.5             | 19.14                     | 18.13 | 17.17 |            |       |       |
|                        |                       | 1880.0             | 19.16                     | 18.15 | 17.14 |            |       |       |
|                        |                       | 1857.5             | 19.11                     | 18.10 | 17.14 |            |       |       |
|                        | 36RB_0                | 1902.5             | 19.11                     | 18.08 | 17.13 |            |       |       |
|                        |                       | 1880.0             | 19.13                     | 18.16 | 17.14 |            |       |       |
|                        |                       | 1857.5             | 19.09                     | 18.11 | 17.13 |            |       |       |
|                        | 75RB_0                | 1902.5             | 19.11                     | 18.14 | 17.09 |            |       |       |
|                        |                       | 1880.0             | 19.16                     | 18.09 | 17.10 |            |       |       |
|                        |                       | 1857.5             | 19.11                     | 18.11 | 17.11 |            |       |       |



| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1900.0             | 20.07                     | 19.38 | 18.08 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1880.0             | 20.08                     | 19.33 | 18.16 |            |       |       |
|                        |                       | 1860.0             | 20.05                     | 19.32 | 18.20 |            |       |       |
|                        | 1RB_50                | 1900.0             | 20.18                     | 19.50 | 18.20 |            |       |       |
|                        |                       | 1880.0             | 20.19                     | 19.42 | 18.21 |            |       |       |
|                        |                       | 1860.0             | 20.15                     | 19.44 | 18.31 |            |       |       |
|                        | 1RB_0                 | 1900.0             | 20.12                     | 19.39 | 18.11 |            |       |       |
|                        |                       | 1880.0             | 20.08                     | 19.38 | 18.17 |            |       |       |
|                        |                       | 1860.0             | 20.12                     | 19.40 | 18.29 |            |       |       |
|                        | 50RB_50               | 1900.0             | 19.11                     | 18.12 | 17.11 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1880.0             | 19.07                     | 18.09 | 17.07 |            |       |       |
|                        |                       | 1860.0             | 19.11                     | 18.13 | 17.08 |            |       |       |
|                        | 50RB_25               | 1900.0             | 19.16                     | 18.14 | 17.12 |            |       |       |
|                        |                       | 1880.0             | 19.18                     | 18.18 | 17.14 |            |       |       |
|                        |                       | 1860.0             | 19.16                     | 18.14 | 17.14 |            |       |       |
|                        | 50RB_0                | 1900.0             | 19.17                     | 18.14 | 17.09 |            |       |       |
|                        |                       | 1880.0             | 19.19                     | 18.18 | 17.14 |            |       |       |
|                        |                       | 1860.0             | 19.18                     | 18.15 | 17.13 |            |       |       |
|                        | 100RB_0               | 1900.0             | 19.12                     | 18.12 | 17.08 |            |       |       |
|                        |                       | 1880.0             | 19.12                     | 18.10 | 17.05 |            |       |       |
|                        |                       | 1860.0             | 19.14                     | 18.06 | 17.08 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1909.3             | 13.13                     | 13.29 | 13.27 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.14                     | 13.19 | 13.24 |            |       |       |
|                        |                       | 1850.7             | 13.17                     | 13.25 | 13.21 |            |       |       |
|                        | 1RB_3                 | 1909.3             | 13.33                     | 13.41 | 13.42 |            |       |       |
|                        |                       | 1880.0             | 13.33                     | 13.42 | 13.31 |            |       |       |
|                        |                       | 1850.7             | 13.26                     | 13.34 | 13.34 |            |       |       |
|                        | 1RB_0                 | 1909.3             | 13.21                     | 13.28 | 13.15 |            |       |       |
|                        |                       | 1880.0             | 13.21                     | 13.26 | 13.25 |            |       |       |
|                        |                       | 1850.7             | 13.27                     | 13.23 | 13.32 |            |       |       |
|                        | 3RB_3                 | 1909.3             | 13.14                     | 13.12 | 13.25 |            |       |       |
|                        |                       | 1880.0             | 13.15                     | 13.13 | 13.27 |            |       |       |
|                        |                       | 1850.7             | 13.19                     | 13.26 | 13.21 |            |       |       |
|                        | 3RB_1                 | 1909.3             | 13.18                     | 13.28 | 13.29 |            |       |       |
|                        |                       | 1880.0             | 13.23                     | 13.34 | 13.30 |            |       |       |
|                        |                       | 1850.7             | 13.22                     | 13.30 | 13.29 |            |       |       |
|                        | 3RB_0                 | 1909.3             | 13.17                     | 13.27 | 13.18 |            |       |       |
|                        |                       | 1880.0             | 13.22                     | 13.25 | 13.32 |            |       |       |
|                        |                       | 1850.7             | 13.15                     | 13.24 | 13.24 |            |       |       |
|                        | 6RB_0                 | 1909.3             | 13.18                     | 13.14 | 13.21 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.15                     | 13.19 | 13.25 |            |       |       |
|                        |                       | 1850.7             | 13.18                     | 13.23 | 13.23 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1908.5             | 13.16                     | 13.28 | 13.26 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.17                     | 13.21 | 13.24 |            |       |       |
|                        |                       | 1851.5             | 13.18                     | 13.24 | 13.24 |            |       |       |
|                        | 1RB_7                 | 1908.5             | 13.36                     | 13.39 | 13.40 |            |       |       |
|                        |                       | 1880.0             | 13.35                     | 13.45 | 13.33 |            |       |       |
|                        |                       | 1851.5             | 13.29                     | 13.35 | 13.34 |            |       |       |
|                        | 1RB_0                 | 1908.5             | 13.18                     | 13.25 | 13.18 |            |       |       |
|                        |                       | 1880.0             | 13.24                     | 13.27 | 13.27 |            |       |       |
|                        |                       | 1851.5             | 13.25                     | 13.25 | 13.33 |            |       |       |
|                        | 8RB_7                 | 1908.5             | 13.13                     | 13.16 | 13.21 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.12                     | 13.17 | 13.24 |            |       |       |
|                        |                       | 1851.5             | 13.19                     | 13.26 | 13.19 |            |       |       |
|                        | 8RB_4                 | 1908.5             | 13.16                     | 13.26 | 13.27 |            |       |       |
|                        |                       | 1880.0             | 13.21                     | 13.36 | 13.30 |            |       |       |
|                        |                       | 1851.5             | 13.18                     | 13.31 | 13.27 |            |       |       |
|                        | 8RB_0                 | 1908.5             | 13.15                     | 13.27 | 13.22 |            |       |       |
|                        |                       | 1880.0             | 13.20                     | 13.24 | 13.32 |            |       |       |
|                        |                       | 1851.5             | 13.16                     | 13.27 | 13.21 |            |       |       |
|                        | 15RB_0                | 1908.5             | 13.15                     | 13.18 | 13.22 |            |       |       |
|                        |                       | 1880.0             | 13.12                     | 13.22 | 13.23 |            |       |       |
|                        |                       | 1851.5             | 13.17                     | 13.26 | 13.24 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1907.5             | 13.21                     | 13.38 | 13.33 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.29                     | 13.31 | 13.28 |            |       |       |
|                        |                       | 1852.5             | 13.20                     | 13.30 | 13.41 |            |       |       |
|                        | 1RB_12                | 1907.5             | 13.38                     | 13.44 | 13.43 |            |       |       |
|                        |                       | 1880.0             | 13.41                     | 13.44 | 13.44 |            |       |       |
|                        |                       | 1852.5             | 13.34                     | 13.45 | 13.42 |            |       |       |
|                        | 1RB_0                 | 1907.5             | 13.26                     | 13.24 | 13.26 |            |       |       |
|                        |                       | 1880.0             | 13.35                     | 13.32 | 13.36 |            |       |       |
|                        |                       | 1852.5             | 13.31                     | 13.37 | 13.39 |            |       |       |
|                        | 12RB_13               | 1907.5             | 13.07                     | 13.23 | 13.24 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.17                     | 13.22 | 13.23 |            |       |       |
|                        |                       | 1852.5             | 13.26                     | 13.38 | 13.23 |            |       |       |
|                        | 12RB_6                | 1907.5             | 13.17                     | 13.20 | 13.28 |            |       |       |
|                        |                       | 1880.0             | 13.33                     | 13.34 | 13.35 |            |       |       |
|                        |                       | 1852.5             | 13.24                     | 13.34 | 13.28 |            |       |       |
|                        | 12RB_0                | 1907.5             | 13.28                     | 13.27 | 13.34 |            |       |       |
|                        |                       | 1880.0             | 13.30                     | 13.37 | 13.33 |            |       |       |
|                        |                       | 1852.5             | 13.31                     | 13.35 | 13.28 |            |       |       |
|                        | 25RB_0                | 1907.5             | 13.11                     | 13.30 | 13.27 |            |       |       |
|                        |                       | 1880.0             | 13.16                     | 13.26 | 13.22 |            |       |       |
|                        |                       | 1852.5             | 13.24                     | 13.38 | 13.39 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1905.0             | 13.22                     | 13.35 | 13.31 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.28                     | 13.29 | 13.24 |            |       |       |
|                        |                       | 1855.0             | 13.22                     | 13.31 | 13.39 |            |       |       |
|                        | 1RB_24                | 1905.0             | 13.34                     | 13.47 | 13.45 |            |       |       |
|                        |                       | 1880.0             | 13.42                     | 13.46 | 13.44 |            |       |       |
|                        |                       | 1855.0             | 13.33                     | 13.44 | 13.39 |            |       |       |
|                        | 1RB_0                 | 1905.0             | 13.26                     | 13.23 | 13.26 |            |       |       |
|                        |                       | 1880.0             | 13.32                     | 13.30 | 13.33 |            |       |       |
|                        |                       | 1855.0             | 13.30                     | 13.34 | 13.38 |            |       |       |
|                        | 25RB_25               | 1905.0             | 13.08                     | 13.23 | 13.24 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.16                     | 13.22 | 13.25 |            |       |       |
|                        |                       | 1855.0             | 13.28                     | 13.39 | 13.23 |            |       |       |
|                        | 25RB_12               | 1905.0             | 13.20                     | 13.24 | 13.30 |            |       |       |
|                        |                       | 1880.0             | 13.32                     | 13.33 | 13.35 |            |       |       |
|                        |                       | 1855.0             | 13.27                     | 13.36 | 13.30 |            |       |       |
|                        | 25RB_0                | 1905.0             | 13.25                     | 13.30 | 13.31 |            |       |       |
|                        |                       | 1880.0             | 13.27                     | 13.36 | 13.32 |            |       |       |
|                        |                       | 1855.0             | 13.27                     | 13.35 | 13.30 |            |       |       |
|                        | 50RB_0                | 1905.0             | 13.14                     | 13.28 | 13.27 |            |       |       |
|                        |                       | 1880.0             | 13.20                     | 13.28 | 13.25 |            |       |       |
|                        |                       | 1855.0             | 13.22                     | 13.37 | 13.36 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1902.5             | 13.19                     | 13.25 | 13.26 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.19                     | 13.22 | 13.18 |            |       |       |
|                        |                       | 1857.5             | 13.19                     | 13.23 | 13.29 |            |       |       |
|                        | 1RB_37                | 1902.5             | 13.29                     | 13.39 | 13.37 |            |       |       |
|                        |                       | 1880.0             | 13.32                     | 13.39 | 13.36 |            |       |       |
|                        |                       | 1857.5             | 13.26                     | 13.36 | 13.34 |            |       |       |
|                        | 1RB_0                 | 1902.5             | 13.17                     | 13.20 | 13.18 |            |       |       |
|                        |                       | 1880.0             | 13.25                     | 13.25 | 13.27 |            |       |       |
|                        |                       | 1857.5             | 13.22                     | 13.30 | 13.29 |            |       |       |
|                        | 36RB_38               | 1902.5             | 13.06                     | 13.20 | 13.15 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.12                     | 13.18 | 13.23 |            |       |       |
|                        |                       | 1857.5             | 13.21                     | 13.30 | 13.19 |            |       |       |
|                        | 36RB_19               | 1902.5             | 13.16                     | 13.21 | 13.27 |            |       |       |
|                        |                       | 1880.0             | 13.25                     | 13.29 | 13.28 |            |       |       |
|                        |                       | 1857.5             | 13.18                     | 13.30 | 13.25 |            |       |       |
|                        | 36RB_0                | 1902.5             | 13.18                     | 13.24 | 13.22 |            |       |       |
|                        |                       | 1880.0             | 13.22                     | 13.30 | 13.28 |            |       |       |
|                        |                       | 1857.5             | 13.17                     | 13.27 | 13.22 |            |       |       |
|                        | 75RB_0                | 1902.5             | 13.11                     | 13.18 | 13.22 |            |       |       |
|                        |                       | 1880.0             | 13.11                     | 13.19 | 13.18 |            |       |       |
|                        |                       | 1857.5             | 13.17                     | 13.31 | 13.27 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1900.0             | 13.18                     | 13.26 | 13.26 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.18                     | 13.22 | 13.21 |            |       |       |
|                        |                       | 1860.0             | 13.20                     | 13.23 | 13.27 |            |       |       |
|                        | 1RB_50                | 1900.0             | 13.32                     | 13.37 | 13.37 |            |       |       |
|                        |                       | 1880.0             | 13.33                     | 13.41 | 13.36 |            |       |       |
|                        |                       | 1860.0             | 13.29                     | 13.33 | 13.34 |            |       |       |
|                        | 1RB_0                 | 1900.0             | 13.15                     | 13.24 | 13.21 |            |       |       |
|                        |                       | 1880.0             | 13.23                     | 13.28 | 13.30 |            |       |       |
|                        |                       | 1860.0             | 13.22                     | 13.28 | 13.29 |            |       |       |
|                        | 50RB_50               | 1900.0             | 13.09                     | 13.18 | 13.17 | 14.0       | 14.0  | 14.0  |
|                        |                       | 1880.0             | 13.15                     | 13.17 | 13.22 |            |       |       |
|                        |                       | 1860.0             | 13.19                     | 13.28 | 13.22 |            |       |       |
|                        | 50RB_25               | 1900.0             | 13.19                     | 13.25 | 13.23 |            |       |       |
|                        |                       | 1880.0             | 13.25                     | 13.33 | 13.32 |            |       |       |
|                        |                       | 1860.0             | 13.22                     | 13.31 | 13.27 |            |       |       |
|                        | 50RB_0                | 1900.0             | 13.15                     | 13.24 | 13.22 |            |       |       |
|                        |                       | 1880.0             | 13.21                     | 13.26 | 13.28 |            |       |       |
|                        |                       | 1860.0             | 13.20                     | 13.25 | 13.23 |            |       |       |
|                        | 100RB_0               | 1900.0             | 13.12                     | 13.15 | 13.19 |            |       |       |
|                        |                       | 1880.0             | 13.11                     | 13.20 | 13.20 |            |       |       |
|                        |                       | 1860.0             | 13.20                     | 13.28 | 13.25 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1909.3             | 18.17                     | 18.19 | 18.18 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.15                     | 18.13 | 18.18 |            |       |       |
|                        |                       | 1850.7             | 18.19                     | 18.18 | 18.25 |            |       |       |
|                        | 1RB_3                 | 1909.3             | 18.35                     | 18.34 | 18.25 |            |       |       |
|                        |                       | 1880.0             | 18.29                     | 18.29 | 18.29 |            |       |       |
|                        |                       | 1850.7             | 18.30                     | 18.32 | 18.27 |            |       |       |
|                        | 1RB_0                 | 1909.3             | 18.13                     | 18.22 | 18.18 |            |       |       |
|                        |                       | 1880.0             | 18.20                     | 18.27 | 18.24 |            |       |       |
|                        |                       | 1850.7             | 18.25                     | 18.22 | 18.18 |            |       |       |
|                        | 3RB_3                 | 1909.3             | 18.09                     | 18.15 | 18.18 |            |       |       |
|                        |                       | 1880.0             | 18.16                     | 18.15 | 18.15 |            |       |       |
|                        |                       | 1850.7             | 18.25                     | 18.19 | 18.19 |            |       |       |
|                        | 3RB_1                 | 1909.3             | 18.22                     | 18.18 | 18.25 |            |       |       |
|                        |                       | 1880.0             | 18.31                     | 18.37 | 18.29 |            |       |       |
|                        |                       | 1850.7             | 18.25                     | 18.30 | 18.25 |            |       |       |
|                        | 3RB_0                 | 1909.3             | 18.16                     | 18.19 | 18.21 |            |       |       |
|                        |                       | 1880.0             | 18.30                     | 18.27 | 18.26 |            |       |       |
|                        |                       | 1850.7             | 18.25                     | 18.20 | 18.22 |            |       |       |
|                        | 6RB_0                 | 1909.3             | 18.19                     | 18.13 | 18.19 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.17                     | 18.19 | 18.14 |            |       |       |
|                        |                       | 1850.7             | 18.21                     | 18.17 | 18.20 |            |       |       |



| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1908.5             | 18.14                     | 18.18 | 18.23 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.15                     | 18.14 | 18.17 |            |       |       |
|                        |                       | 1851.5             | 18.20                     | 18.18 | 18.22 |            |       |       |
|                        | 1RB_7                 | 1908.5             | 18.33                     | 18.35 | 18.30 |            |       |       |
|                        |                       | 1880.0             | 18.30                     | 18.34 | 18.33 |            |       |       |
|                        |                       | 1851.5             | 18.28                     | 18.30 | 18.23 |            |       |       |
|                        | 1RB_0                 | 1908.5             | 18.19                     | 18.15 | 18.17 |            |       |       |
|                        |                       | 1880.0             | 18.19                     | 18.27 | 18.24 |            |       |       |
|                        |                       | 1851.5             | 18.21                     | 18.19 | 18.19 |            |       |       |
|                        | 8RB_7                 | 1908.5             | 18.09                     | 18.13 | 18.10 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.16                     | 18.18 | 18.16 |            |       |       |
|                        |                       | 1851.5             | 18.26                     | 18.20 | 18.23 |            |       |       |
|                        | 8RB_4                 | 1908.5             | 18.24                     | 18.16 | 18.26 |            |       |       |
|                        |                       | 1880.0             | 18.33                     | 18.37 | 18.30 |            |       |       |
|                        |                       | 1851.5             | 18.29                     | 18.28 | 18.18 |            |       |       |
|                        | 8RB_0                 | 1908.5             | 18.21                     | 18.14 | 18.21 |            |       |       |
|                        |                       | 1880.0             | 18.29                     | 18.26 | 18.30 |            |       |       |
|                        |                       | 1851.5             | 18.21                     | 18.22 | 18.28 |            |       |       |
|                        | 15RB_0                | 1908.5             | 18.14                     | 18.17 | 18.13 |            |       |       |
|                        |                       | 1880.0             | 18.11                     | 18.13 | 18.21 |            |       |       |
|                        |                       | 1851.5             | 18.24                     | 18.19 | 18.25 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1907.5             | 18.15                     | 18.19 | 18.18 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.17                     | 18.19 | 18.21 |            |       |       |
|                        |                       | 1852.5             | 18.18                     | 18.17 | 18.24 |            |       |       |
|                        | 1RB_12                | 1907.5             | 18.35                     | 18.36 | 18.26 |            |       |       |
|                        |                       | 1880.0             | 18.33                     | 18.28 | 18.33 |            |       |       |
|                        |                       | 1852.5             | 18.25                     | 18.35 | 18.26 |            |       |       |
|                        | 1RB_0                 | 1907.5             | 18.15                     | 18.14 | 18.20 |            |       |       |
|                        |                       | 1880.0             | 18.21                     | 18.26 | 18.22 |            |       |       |
|                        |                       | 1852.5             | 18.23                     | 18.24 | 18.16 |            |       |       |
|                        | 12RB_13               | 1907.5             | 18.12                     | 18.19 | 18.12 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.18                     | 18.16 | 18.18 |            |       |       |
|                        |                       | 1852.5             | 18.22                     | 18.21 | 18.22 |            |       |       |
|                        | 12RB_6                | 1907.5             | 18.20                     | 18.22 | 18.22 |            |       |       |
|                        |                       | 1880.0             | 18.27                     | 18.36 | 18.30 |            |       |       |
|                        |                       | 1852.5             | 18.27                     | 18.28 | 18.26 |            |       |       |
|                        | 12RB_0                | 1907.5             | 18.22                     | 18.20 | 18.20 |            |       |       |
|                        |                       | 1880.0             | 18.25                     | 18.23 | 18.27 |            |       |       |
|                        |                       | 1852.5             | 18.22                     | 18.22 | 18.26 |            |       |       |
|                        | 25RB_0                | 1907.5             | 18.19                     | 18.11 | 18.17 |            |       |       |
|                        |                       | 1880.0             | 18.18                     | 18.14 | 18.18 |            |       |       |
|                        |                       | 1852.5             | 18.28                     | 18.21 | 18.19 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1905.0             | 18.17                     | 18.15 | 18.22 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.18                     | 18.17 | 18.19 |            |       |       |
|                        |                       | 1855.0             | 18.19                     | 18.22 | 18.24 |            |       |       |
|                        | 1RB_24                | 1905.0             | 18.30                     | 18.33 | 18.31 |            |       |       |
|                        |                       | 1880.0             | 18.29                     | 18.28 | 18.30 |            |       |       |
|                        |                       | 1855.0             | 18.28                     | 18.34 | 18.26 |            |       |       |
|                        | 1RB_0                 | 1905.0             | 18.16                     | 18.21 | 18.13 |            |       |       |
|                        |                       | 1880.0             | 18.26                     | 18.27 | 18.23 |            |       |       |
|                        |                       | 1855.0             | 18.24                     | 18.19 | 18.19 |            |       |       |
|                        | 25RB_25               | 1905.0             | 18.13                     | 18.13 | 18.18 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.16                     | 18.18 | 18.16 |            |       |       |
|                        |                       | 1855.0             | 18.19                     | 18.19 | 18.18 |            |       |       |
|                        | 25RB_12               | 1905.0             | 18.24                     | 18.18 | 18.27 |            |       |       |
|                        |                       | 1880.0             | 18.34                     | 18.39 | 18.29 |            |       |       |
|                        |                       | 1855.0             | 18.22                     | 18.25 | 18.25 |            |       |       |
|                        | 25RB_0                | 1905.0             | 18.15                     | 18.20 | 18.20 |            |       |       |
|                        |                       | 1880.0             | 18.23                     | 18.26 | 18.28 |            |       |       |
|                        |                       | 1855.0             | 18.26                     | 18.25 | 18.25 |            |       |       |
|                        | 50RB_0                | 1905.0             | 18.18                     | 18.15 | 18.20 |            |       |       |
|                        |                       | 1880.0             | 18.17                     | 18.17 | 18.19 |            |       |       |
|                        |                       | 1855.0             | 18.22                     | 18.18 | 18.18 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1902.5             | 18.18                     | 18.13 | 18.20 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.17                     | 18.18 | 18.20 |            |       |       |
|                        |                       | 1857.5             | 18.18                     | 18.22 | 18.23 |            |       |       |
|                        | 1RB_37                | 1902.5             | 18.32                     | 18.34 | 18.26 |            |       |       |
|                        |                       | 1880.0             | 18.32                     | 18.30 | 18.29 |            |       |       |
|                        |                       | 1857.5             | 18.25                     | 18.30 | 18.30 |            |       |       |
|                        | 1RB_0                 | 1902.5             | 18.12                     | 18.16 | 18.19 |            |       |       |
|                        |                       | 1880.0             | 18.24                     | 18.25 | 18.24 |            |       |       |
|                        |                       | 1857.5             | 18.21                     | 18.26 | 18.16 |            |       |       |
|                        | 36RB_38               | 1902.5             | 18.11                     | 18.15 | 18.11 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.17                     | 18.21 | 18.20 |            |       |       |
|                        |                       | 1857.5             | 18.25                     | 18.18 | 18.21 |            |       |       |
|                        | 36RB_19               | 1902.5             | 18.21                     | 18.22 | 18.23 |            |       |       |
|                        |                       | 1880.0             | 18.28                     | 18.38 | 18.30 |            |       |       |
|                        |                       | 1857.5             | 18.24                     | 18.31 | 18.20 |            |       |       |
|                        | 36RB_0                | 1902.5             | 18.19                     | 18.21 | 18.24 |            |       |       |
|                        |                       | 1880.0             | 18.29                     | 18.23 | 18.34 |            |       |       |
|                        |                       | 1857.5             | 18.27                     | 18.22 | 18.24 |            |       |       |
|                        | 75RB_0                | 1902.5             | 18.15                     | 18.11 | 18.19 |            |       |       |
|                        |                       | 1880.0             | 18.13                     | 18.17 | 18.15 |            |       |       |
|                        |                       | 1857.5             | 18.23                     | 18.18 | 18.25 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1900.0             | 18.18                     | 18.14 | 18.21 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.18                     | 18.16 | 18.20 |            |       |       |
|                        |                       | 1860.0             | 18.20                     | 18.21 | 18.21 |            |       |       |
|                        | 1RB_50                | 1900.0             | 18.32                     | 18.33 | 18.28 |            |       |       |
|                        |                       | 1880.0             | 18.32                     | 18.31 | 18.33 |            |       |       |
|                        |                       | 1860.0             | 18.29                     | 18.33 | 18.26 |            |       |       |
|                        | 1RB_0                 | 1900.0             | 18.15                     | 18.18 | 18.16 |            |       |       |
|                        |                       | 1880.0             | 18.23                     | 18.25 | 18.20 |            |       |       |
|                        |                       | 1860.0             | 18.22                     | 18.22 | 18.19 |            |       |       |
|                        | 50RB_50               | 1900.0             | 18.13                     | 18.16 | 18.14 | 19.0       | 19.0  | 19.0  |
|                        |                       | 1880.0             | 18.19                     | 18.18 | 18.18 |            |       |       |
|                        |                       | 1860.0             | 18.23                     | 18.19 | 18.20 |            |       |       |
|                        | 50RB_25               | 1900.0             | 18.23                     | 18.20 | 18.25 |            |       |       |
|                        |                       | 1880.0             | 18.31                     | 18.35 | 18.32 |            |       |       |
|                        |                       | 1860.0             | 18.26                     | 18.29 | 18.22 |            |       |       |
|                        | 50RB_0                | 1900.0             | 18.19                     | 18.18 | 18.21 |            |       |       |
|                        |                       | 1880.0             | 18.27                     | 18.24 | 18.30 |            |       |       |
|                        |                       | 1860.0             | 18.24                     | 18.22 | 18.26 |            |       |       |
|                        | 100RB_0               | 1900.0             | 18.16                     | 18.13 | 18.16 |            |       |       |
|                        |                       | 1880.0             | 18.15                     | 18.15 | 18.17 |            |       |       |
|                        |                       | 1860.0             | 18.24                     | 18.20 | 18.22 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1909.3             | 20.15                     | 20.24 | 20.34 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.25                     | 20.15 | 20.22 |            |       |       |
|                        |                       | 1850.7             | 20.24                     | 20.20 | 20.09 |            |       |       |
|                        | 1RB_3                 | 1909.3             | 20.37                     | 20.24 | 20.31 |            |       |       |
|                        |                       | 1880.0             | 20.43                     | 20.39 | 20.31 |            |       |       |
|                        |                       | 1850.7             | 20.41                     | 20.35 | 20.36 |            |       |       |
|                        | 1RB_0                 | 1909.3             | 20.21                     | 20.13 | 20.21 |            |       |       |
|                        |                       | 1880.0             | 20.29                     | 20.24 | 20.33 |            |       |       |
|                        |                       | 1850.7             | 20.29                     | 20.28 | 20.20 |            |       |       |
|                        | 3RB_3                 | 1909.3             | 20.29                     | 20.11 | 20.19 |            |       |       |
|                        |                       | 1880.0             | 20.28                     | 20.13 | 20.18 |            |       |       |
|                        |                       | 1850.7             | 20.19                     | 20.33 | 20.24 |            |       |       |
|                        | 3RB_1                 | 1909.3             | 20.21                     | 20.25 | 20.28 |            |       |       |
|                        |                       | 1880.0             | 20.41                     | 20.38 | 20.35 |            |       |       |
|                        |                       | 1850.7             | 20.28                     | 20.41 | 20.28 |            |       |       |
|                        | 3RB_0                 | 1909.3             | 20.22                     | 20.19 | 20.17 |            |       |       |
|                        |                       | 1880.0             | 20.27                     | 20.33 | 20.26 |            |       |       |
|                        |                       | 1850.7             | 20.19                     | 20.28 | 20.21 |            |       |       |
|                        | 6RB_0                 | 1909.3             | 20.15                     | 20.14 | 20.11 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.28                     | 20.12 | 20.10 |            |       |       |
|                        |                       | 1850.7             | 20.37                     | 20.23 | 20.30 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1908.5             | 20.18                     | 20.21 | 20.33 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.28                     | 20.18 | 20.21 |            |       |       |
|                        |                       | 1851.5             | 20.25                     | 20.23 | 20.11 |            |       |       |
|                        | 1RB_7                 | 1908.5             | 20.38                     | 20.25 | 20.33 |            |       |       |
|                        |                       | 1880.0             | 20.40                     | 20.42 | 20.31 |            |       |       |
|                        |                       | 1851.5             | 20.38                     | 20.31 | 20.35 |            |       |       |
|                        | 1RB_0                 | 1908.5             | 20.21                     | 20.15 | 20.23 |            |       |       |
|                        |                       | 1880.0             | 20.26                     | 20.21 | 20.34 |            |       |       |
|                        |                       | 1851.5             | 20.27                     | 20.26 | 20.20 |            |       |       |
|                        | 8RB_7                 | 1908.5             | 20.28                     | 20.12 | 20.21 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.30                     | 20.15 | 20.21 |            |       |       |
|                        |                       | 1851.5             | 20.18                     | 20.30 | 20.27 |            |       |       |
|                        | 8RB_4                 | 1908.5             | 20.25                     | 20.22 | 20.31 |            |       |       |
|                        |                       | 1880.0             | 20.39                     | 20.38 | 20.33 |            |       |       |
|                        |                       | 1851.5             | 20.26                     | 20.39 | 20.30 |            |       |       |
|                        | 8RB_0                 | 1908.5             | 20.22                     | 20.18 | 20.20 |            |       |       |
|                        |                       | 1880.0             | 20.24                     | 20.32 | 20.26 |            |       |       |
|                        |                       | 1851.5             | 20.22                     | 20.27 | 20.25 |            |       |       |
|                        | 15RB_0                | 1908.5             | 20.19                     | 20.18 | 20.13 |            |       |       |
|                        |                       | 1880.0             | 20.27                     | 20.16 | 20.14 |            |       |       |
|                        |                       | 1851.5             | 20.35                     | 20.25 | 20.31 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1907.5             | 20.15                     | 20.21 | 20.30 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.29                     | 20.22 | 20.18 |            |       |       |
|                        |                       | 1852.5             | 20.25                     | 20.26 | 20.14 |            |       |       |
|                        | 1RB_12                | 1907.5             | 20.36                     | 20.27 | 20.34 |            |       |       |
|                        |                       | 1880.0             | 20.37                     | 20.40 | 20.35 |            |       |       |
|                        |                       | 1852.5             | 20.37                     | 20.34 | 20.37 |            |       |       |
|                        | 1RB_0                 | 1907.5             | 20.20                     | 20.14 | 20.23 |            |       |       |
|                        |                       | 1880.0             | 20.29                     | 20.20 | 20.33 |            |       |       |
|                        |                       | 1852.5             | 20.24                     | 20.22 | 20.16 |            |       |       |
|                        | 12RB_13               | 1907.5             | 20.24                     | 20.14 | 20.22 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.28                     | 20.16 | 20.22 |            |       |       |
|                        |                       | 1852.5             | 20.17                     | 20.27 | 20.28 |            |       |       |
|                        | 12RB_6                | 1907.5             | 20.26                     | 20.24 | 20.32 |            |       |       |
|                        |                       | 1880.0             | 20.36                     | 20.37 | 20.35 |            |       |       |
|                        |                       | 1852.5             | 20.30                     | 20.36 | 20.30 |            |       |       |
|                        | 12RB_0                | 1907.5             | 20.25                     | 20.20 | 20.23 |            |       |       |
|                        |                       | 1880.0             | 20.26                     | 20.34 | 20.27 |            |       |       |
|                        |                       | 1852.5             | 20.22                     | 20.27 | 20.25 |            |       |       |
|                        | 25RB_0                | 1907.5             | 20.19                     | 20.20 | 20.16 |            |       |       |
|                        |                       | 1880.0             | 20.23                     | 20.13 | 20.18 |            |       |       |
|                        |                       | 1852.5             | 20.34                     | 20.23 | 20.31 |            |       |       |



| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1905.0             | 20.13                     | 20.22 | 20.28 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.26                     | 20.25 | 20.21 |            |       |       |
|                        |                       | 1855.0             | 20.27                     | 20.25 | 20.16 |            |       |       |
|                        | 1RB_24                | 1905.0             | 20.33                     | 20.30 | 20.32 |            |       |       |
|                        |                       | 1880.0             | 20.36                     | 20.39 | 20.35 |            |       |       |
|                        |                       | 1855.0             | 20.35                     | 20.32 | 20.34 |            |       |       |
|                        | 1RB_0                 | 1905.0             | 20.23                     | 20.16 | 20.23 |            |       |       |
|                        |                       | 1880.0             | 20.30                     | 20.22 | 20.29 |            |       |       |
|                        |                       | 1855.0             | 20.27                     | 20.23 | 20.20 |            |       |       |
|                        | 25RB_25               | 1905.0             | 20.22                     | 20.16 | 20.19 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.26                     | 20.20 | 20.23 |            |       |       |
|                        |                       | 1855.0             | 20.21                     | 20.29 | 20.27 |            |       |       |
|                        | 25RB_12               | 1905.0             | 20.26                     | 20.25 | 20.30 |            |       |       |
|                        |                       | 1880.0             | 20.33                     | 20.34 | 20.36 |            |       |       |
|                        |                       | 1855.0             | 20.32                     | 20.38 | 20.33 |            |       |       |
|                        | 25RB_0                | 1905.0             | 20.29                     | 20.24 | 20.24 |            |       |       |
|                        |                       | 1880.0             | 20.26                     | 20.33 | 20.30 |            |       |       |
|                        |                       | 1855.0             | 20.25                     | 20.30 | 20.27 |            |       |       |
|                        | 50RB_0                | 1905.0             | 20.18                     | 20.21 | 20.20 |            |       |       |
|                        |                       | 1880.0             | 20.19                     | 20.11 | 20.21 |            |       |       |
|                        |                       | 1855.0             | 20.32                     | 20.26 | 20.30 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1902.5             | 20.17                     | 20.21 | 20.26 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.24                     | 20.22 | 20.20 |            |       |       |
|                        |                       | 1857.5             | 20.27                     | 20.23 | 20.18 |            |       |       |
|                        | 1RB_37                | 1902.5             | 20.37                     | 20.34 | 20.34 |            |       |       |
|                        |                       | 1880.0             | 20.39                     | 20.42 | 20.34 |            |       |       |
|                        |                       | 1857.5             | 20.31                     | 20.31 | 20.31 |            |       |       |
|                        | 1RB_0                 | 1902.5             | 20.20                     | 20.13 | 20.19 |            |       |       |
|                        |                       | 1880.0             | 20.27                     | 20.21 | 20.32 |            |       |       |
|                        |                       | 1857.5             | 20.26                     | 20.22 | 20.23 |            |       |       |
|                        | 36RB_38               | 1902.5             | 20.22                     | 20.16 | 20.20 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.26                     | 20.24 | 20.22 |            |       |       |
|                        |                       | 1857.5             | 20.24                     | 20.26 | 20.27 |            |       |       |
|                        | 36RB_19               | 1902.5             | 20.26                     | 20.24 | 20.31 |            |       |       |
|                        |                       | 1880.0             | 20.33                     | 20.34 | 20.32 |            |       |       |
|                        |                       | 1857.5             | 20.33                     | 20.37 | 20.33 |            |       |       |
|                        | 36RB_0                | 1902.5             | 20.27                     | 20.24 | 20.23 |            |       |       |
|                        |                       | 1880.0             | 20.30                     | 20.36 | 20.29 |            |       |       |
|                        |                       | 1857.5             | 20.27                     | 20.31 | 20.28 |            |       |       |
|                        | 75RB_0                | 1902.5             | 20.19                     | 20.20 | 20.21 |            |       |       |
|                        |                       | 1880.0             | 20.23                     | 20.14 | 20.23 |            |       |       |
|                        |                       | 1857.5             | 20.31                     | 20.28 | 20.29 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 2             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1900.0             | 20.21                     | 20.22 | 20.24 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.21                     | 20.22 | 20.20 |            |       |       |
|                        |                       | 1860.0             | 20.23                     | 20.21 | 20.19 |            |       |       |
|                        | 1RB_50                | 1900.0             | 20.35                     | 20.36 | 20.36 |            |       |       |
|                        |                       | 1880.0             | 20.36                     | 20.41 | 20.36 |            |       |       |
|                        |                       | 1860.0             | 20.32                     | 20.34 | 20.31 |            |       |       |
|                        | 1RB_0                 | 1900.0             | 20.18                     | 20.16 | 20.17 |            |       |       |
|                        |                       | 1880.0             | 20.26                     | 20.24 | 20.29 |            |       |       |
|                        |                       | 1860.0             | 20.25                     | 20.24 | 20.25 |            |       |       |
|                        | 50RB_50               | 1900.0             | 20.18                     | 20.15 | 20.18 | 21.0       | 21.0  | 21.0  |
|                        |                       | 1880.0             | 20.24                     | 20.23 | 20.23 |            |       |       |
|                        |                       | 1860.0             | 20.28                     | 20.24 | 20.27 |            |       |       |
|                        | 50RB_25               | 1900.0             | 20.28                     | 20.26 | 20.32 |            |       |       |
|                        |                       | 1880.0             | 20.34                     | 20.33 | 20.32 |            |       |       |
|                        |                       | 1860.0             | 20.31                     | 20.34 | 20.32 |            |       |       |
|                        | 50RB_0                | 1900.0             | 20.24                     | 20.28 | 20.25 |            |       |       |
|                        |                       | 1880.0             | 20.32                     | 20.35 | 20.28 |            |       |       |
|                        |                       | 1860.0             | 20.29                     | 20.33 | 20.28 |            |       |       |
|                        | 100RB_0               | 1900.0             | 20.21                     | 20.18 | 20.23 |            |       |       |
|                        |                       | 1880.0             | 20.20                     | 20.17 | 20.23 |            |       |       |
|                        |                       | 1860.0             | 20.29                     | 20.25 | 20.28 |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1754.3             | 22.94                     | 22.15 | 21.00 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1732.5             | 22.96                     | 22.22 | 20.91 |            |       |       |
|                        |                       | 1710.7             | 22.94                     | 22.26 | 21.00 |            |       |       |
|                        | 1RB_3                 | 1754.3             | 22.97                     | 22.18 | 21.08 |            |       |       |
|                        |                       | 1732.5             | 22.97                     | 22.22 | 20.93 |            |       |       |
|                        |                       | 1710.7             | 22.94                     | 22.32 | 21.02 |            |       |       |
|                        | 1RB_0                 | 1754.3             | 22.94                     | 22.16 | 21.08 |            |       |       |
|                        |                       | 1732.5             | 22.95                     | 22.28 | 20.95 |            |       |       |
|                        |                       | 1710.7             | 22.94                     | 22.28 | 21.02 |            |       |       |
|                        | 3RB_3                 | 1754.3             | 22.99                     | 21.99 | 20.90 |            |       |       |
|                        |                       | 1732.5             | 22.98                     | 21.94 | 20.92 |            |       |       |
|                        |                       | 1710.7             | 23.02                     | 21.98 | 20.97 |            |       |       |
|                        | 3RB_1                 | 1754.3             | 22.96                     | 22.01 | 20.90 |            |       |       |
|                        |                       | 1732.5             | 22.99                     | 21.99 | 20.92 |            |       |       |
|                        |                       | 1710.7             | 22.99                     | 22.03 | 21.01 |            |       |       |
|                        | 3RB_0                 | 1754.3             | 22.96                     | 22.00 | 20.92 |            |       |       |
|                        |                       | 1732.5             | 23.01                     | 21.97 | 20.97 |            |       |       |
|                        |                       | 1710.7             | 23.01                     | 22.02 | 21.00 |            |       |       |
|                        | 6RB_0                 | 1754.3             | 22.02                     | 21.02 | 20.01 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 22.01                     | 21.02 | 20.03 |            |       |       |
|                        |                       | 1710.7             | 22.03                     | 21.05 | 20.01 |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1753.5             | 22.95                     | 22.14 | 21.03 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1732.5             | 22.97                     | 22.22 | 21.00 |            |       |       |
|                        |                       | 1711.5             | 23.03                     | 22.19 | 21.01 |            |       |       |
|                        | 1RB_7                 | 1753.5             | 23.04                     | 22.24 | 21.09 |            |       |       |
|                        |                       | 1732.5             | 23.01                     | 22.25 | 21.07 |            |       |       |
|                        |                       | 1711.5             | 23.09                     | 22.23 | 21.06 |            |       |       |
|                        | 1RB_0                 | 1753.5             | 22.99                     | 22.14 | 20.99 |            |       |       |
|                        |                       | 1732.5             | 23.02                     | 22.25 | 21.00 |            |       |       |
|                        |                       | 1711.5             | 23.05                     | 22.17 | 21.02 |            |       |       |
|                        | 8RB_7                 | 1753.5             | 21.95                     | 20.97 | 20.04 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.90                     | 20.96 | 19.95 |            |       |       |
|                        |                       | 1711.5             | 21.96                     | 21.05 | 20.03 |            |       |       |
|                        | 8RB_4                 | 1753.5             | 21.97                     | 21.01 | 20.03 |            |       |       |
|                        |                       | 1732.5             | 21.93                     | 20.97 | 19.98 |            |       |       |
|                        |                       | 1711.5             | 21.97                     | 21.04 | 20.02 |            |       |       |
|                        | 8RB_0                 | 1753.5             | 21.97                     | 21.00 | 20.05 |            |       |       |
|                        |                       | 1732.5             | 21.96                     | 21.02 | 20.02 |            |       |       |
|                        |                       | 1711.5             | 21.97                     | 21.08 | 20.09 |            |       |       |
|                        | 15RB_0                | 1753.5             | 21.94                     | 20.98 | 19.99 |            |       |       |
|                        |                       | 1732.5             | 21.94                     | 20.95 | 20.01 |            |       |       |
|                        |                       | 1711.5             | 21.96                     | 21.01 | 20.01 |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |        |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|--------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |        | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |        | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM  | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1752.5             | 22.93                     | 22.18 | 20.88  | 24.5       | 23.5  | 22.5  |
|                        |                       | 1732.5             | 22.93                     | 22.14 | 20.93  |            |       |       |
|                        |                       | 1712.5             | 22.99                     | 22.14 | 20.93  |            |       |       |
|                        | 1RB_12                | 1752.5             | 22.99                     | 22.17 | 21.00  |            |       |       |
|                        |                       | 1732.5             | 23.00                     | 22.26 | 21.06  |            |       |       |
|                        |                       | 1712.5             | 23.06                     | 22.22 | 21.04  |            |       |       |
|                        | 1RB_0                 | 1752.5             | 22.94                     | 22.15 | 20.95  |            |       |       |
|                        |                       | 1732.5             | 22.98                     | 22.18 | -41.18 |            |       |       |
|                        |                       | 1712.5             | 23.01                     | 22.22 | 20.98  |            |       |       |
|                        | 12RB_13               | 1752.5             | 21.94                     | 20.92 | 19.98  | 23.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.95                     | 20.93 | 19.98  |            |       |       |
|                        |                       | 1712.5             | 21.98                     | 20.98 | 20.05  |            |       |       |
|                        | 12RB_6                | 1752.5             | 21.97                     | 20.96 | 20.02  |            |       |       |
|                        |                       | 1732.5             | 22.00                     | 20.98 | 20.04  |            |       |       |
|                        |                       | 1712.5             | 22.00                     | 21.00 | 20.03  |            |       |       |
|                        | 12RB_0                | 1752.5             | 21.99                     | 20.98 | 20.04  |            |       |       |
|                        |                       | 1732.5             | 22.02                     | 21.01 | 20.08  |            |       |       |
|                        |                       | 1712.5             | 22.00                     | 20.97 | 20.09  |            |       |       |
|                        | 25RB_0                | 1752.5             | 22.00                     | 21.00 | 20.05  |            |       |       |
|                        |                       | 1732.5             | 21.99                     | 20.99 | 20.00  |            |       |       |
|                        |                       | 1712.5             | 22.02                     | 20.99 | 20.05  |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1750.0             | 22.93                     | 22.10 | 21.01 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1732.5             | 22.99                     | 22.08 | 21.02 |            |       |       |
|                        |                       | 1715.0             | 22.95                     | 22.12 | 20.95 |            |       |       |
|                        | 1RB_24                | 1750.0             | 23.00                     | 22.13 | 21.11 |            |       |       |
|                        |                       | 1732.5             | 23.08                     | 22.13 | 21.05 |            |       |       |
|                        |                       | 1715.0             | 23.02                     | 22.22 | 21.03 |            |       |       |
|                        | 1RB_0                 | 1750.0             | 23.05                     | 22.08 | 21.05 |            |       |       |
|                        |                       | 1732.5             | 23.06                     | 22.09 | 21.07 |            |       |       |
|                        |                       | 1715.0             | 22.99                     | 22.19 | 20.98 |            |       |       |
|                        | 25RB_25               | 1750.0             | 22.00                     | 20.99 | 20.06 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.96                     | 20.91 | 20.00 |            |       |       |
|                        |                       | 1715.0             | 22.01                     | 20.99 | 20.09 |            |       |       |
|                        | 25RB_12               | 1750.0             | 21.95                     | 20.96 | 20.04 |            |       |       |
|                        |                       | 1732.5             | 21.95                     | 20.99 | 20.06 |            |       |       |
|                        |                       | 1715.0             | 22.02                     | 21.00 | 20.12 |            |       |       |
|                        | 25RB_0                | 1750.0             | 21.95                     | 20.96 | 20.02 |            |       |       |
|                        |                       | 1732.5             | 22.03                     | 21.01 | 20.11 |            |       |       |
|                        |                       | 1715.0             | 21.99                     | 20.99 | 20.08 |            |       |       |
|                        | 50RB_0                | 1750.0             | 21.96                     | 20.95 | 20.02 |            |       |       |
|                        |                       | 1732.5             | 21.97                     | 20.96 | 20.03 |            |       |       |
|                        |                       | 1715.0             | 22.02                     | 20.97 | 20.09 |            |       |       |

| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1747.5             | 22.97                     | 22.09 | 20.83 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1732.5             | 22.95                     | 22.16 | 20.91 |            |       |       |
|                        |                       | 1717.5             | 22.94                     | 22.17 | 20.96 |            |       |       |
|                        | 1RB_37                | 1747.5             | 23.09                     | 22.18 | 20.94 |            |       |       |
|                        |                       | 1732.5             | 23.07                     | 22.25 | 21.03 |            |       |       |
|                        |                       | 1717.5             | 23.06                     | 22.25 | 21.02 |            |       |       |
|                        | 1RB_0                 | 1747.5             | 23.06                     | 22.17 | 20.93 |            |       |       |
|                        |                       | 1732.5             | 23.01                     | 22.22 | 21.01 |            |       |       |
|                        |                       | 1717.5             | 23.02                     | 22.23 | 21.01 |            |       |       |
|                        | 36RB_38               | 1747.5             | 21.93                     | 20.99 | 20.07 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.92                     | 20.91 | 19.98 |            |       |       |
|                        |                       | 1717.5             | 21.92                     | 20.94 | 19.99 |            |       |       |
|                        | 36RB_19               | 1747.5             | 21.99                     | 20.98 | 20.08 |            |       |       |
|                        |                       | 1732.5             | 21.98                     | 20.97 | 20.07 |            |       |       |
|                        |                       | 1717.5             | 21.99                     | 20.96 | 20.01 |            |       |       |
|                        | 36RB_0                | 1747.5             | 21.96                     | 20.95 | 20.00 |            |       |       |
|                        |                       | 1732.5             | 21.96                     | 20.98 | 20.05 |            |       |       |
|                        |                       | 1717.5             | 21.96                     | 20.95 | 20.04 |            |       |       |
|                        | 75RB_0                | 1747.5             | 21.97                     | 20.93 | 20.07 |            |       |       |
|                        |                       | 1732.5             | 21.96                     | 20.92 | 20.05 |            |       |       |
|                        |                       | 1717.5             | 21.98                     | 20.94 | 20.02 |            |       |       |



| Ant.5 - Power Level A1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1745.0             | 22.92                     | 21.98 | 20.96 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1732.5             | 22.90                     | 22.08 | 20.91 |            |       |       |
|                        |                       | 1720.0             | 22.91                     | 22.10 | 20.79 |            |       |       |
|                        | 1RB_50                | 1745.0             | 23.05                     | 22.22 | 21.10 |            |       |       |
|                        |                       | 1732.5             | 23.01                     | 22.20 | 21.06 |            |       |       |
|                        |                       | 1720.0             | 23.03                     | 22.25 | 20.97 |            |       |       |
|                        | 1RB_0                 | 1745.0             | 23.00                     | 22.18 | 21.06 |            |       |       |
|                        |                       | 1732.5             | 23.01                     | 22.15 | 21.00 |            |       |       |
|                        |                       | 1720.0             | 22.97                     | 22.18 | 20.93 |            |       |       |
|                        | 50RB_50               | 1745.0             | 21.98                     | 20.96 | 20.01 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.88                     | 20.91 | 19.93 |            |       |       |
|                        |                       | 1720.0             | 21.96                     | 20.91 | 20.05 |            |       |       |
|                        | 50RB_25               | 1745.0             | 22.02                     | 20.98 | 20.00 |            |       |       |
|                        |                       | 1732.5             | 21.98                     | 20.95 | 20.05 |            |       |       |
|                        |                       | 1720.0             | 22.02                     | 21.00 | 20.08 |            |       |       |
|                        | 50RB_0                | 1745.0             | 22.01                     | 20.99 | 20.05 |            |       |       |
|                        |                       | 1732.5             | 21.96                     | 20.98 | 20.10 |            |       |       |
|                        |                       | 1720.0             | 21.96                     | 20.93 | 20.06 |            |       |       |
|                        | 100RB_0               | 1745.0             | 21.98                     | 20.95 | 19.99 |            |       |       |
|                        |                       | 1732.5             | 21.97                     | 20.94 | 19.98 |            |       |       |
|                        |                       | 1720.0             | 21.97                     | 20.93 | 20.03 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1754.3             | 19.57                     | 18.83 | 17.72 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.61                     | 18.83 | 17.63 |            |       |       |
|                        |                       | 1710.7             | 19.60                     | 18.92 | 17.68 |            |       |       |
|                        | 1RB_3                 | 1754.3             | 19.57                     | 18.89 | 17.67 |            |       |       |
|                        |                       | 1732.5             | 19.59                     | 18.86 | 17.66 |            |       |       |
|                        |                       | 1710.7             | 19.60                     | 18.87 | 17.72 |            |       |       |
|                        | 1RB_0                 | 1754.3             | 19.56                     | 18.84 | 17.63 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 18.91 | 17.70 |            |       |       |
|                        |                       | 1710.7             | 19.59                     | 18.86 | 17.76 |            |       |       |
|                        | 3RB_3                 | 1754.3             | 19.62                     | 18.57 | 17.68 |            |       |       |
|                        |                       | 1732.5             | 19.58                     | 18.55 | 17.65 |            |       |       |
|                        |                       | 1710.7             | 19.65                     | 18.65 | 17.67 |            |       |       |
|                        | 3RB_1                 | 1754.3             | 19.57                     | 18.57 | 17.67 |            |       |       |
|                        |                       | 1732.5             | 19.61                     | 18.58 | 17.67 |            |       |       |
|                        |                       | 1710.7             | 19.65                     | 18.65 | 17.67 |            |       |       |
|                        | 3RB_0                 | 1754.3             | 19.60                     | 18.56 | 17.69 |            |       |       |
|                        |                       | 1732.5             | 19.61                     | 18.65 | 17.67 |            |       |       |
|                        |                       | 1710.7             | 19.64                     | 18.65 | 17.67 |            |       |       |
|                        | 6RB_0                 | 1754.3             | 18.60                     | 17.62 | 16.52 | 20.0       | 19.0  | 18.0  |
|                        |                       | 1732.5             | 18.61                     | 17.65 | 16.52 |            |       |       |
|                        |                       | 1710.7             | 18.61                     | 17.70 | 16.53 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1753.5             | 19.52                     | 18.85 | 17.64 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.57                     | 18.89 | 17.69 |            |       |       |
|                        |                       | 1711.5             | 19.59                     | 18.92 | 17.77 |            |       |       |
|                        | 1RB_7                 | 1753.5             | 19.58                     | 18.90 | 17.70 |            |       |       |
|                        |                       | 1732.5             | 19.61                     | 18.96 | 17.73 |            |       |       |
|                        |                       | 1711.5             | 19.65                     | 18.93 | 17.82 |            |       |       |
|                        | 1RB_0                 | 1753.5             | 19.58                     | 18.86 | 17.65 |            |       |       |
|                        |                       | 1732.5             | 19.58                     | 18.87 | 17.73 |            |       |       |
|                        |                       | 1711.5             | 19.63                     | 18.94 | 17.77 |            |       |       |
|                        | 8RB_7                 | 1753.5             | 18.56                     | 17.61 | 16.59 | 20.0       | 19.0  | 18.0  |
|                        |                       | 1732.5             | 18.54                     | 17.61 | 16.56 |            |       |       |
|                        |                       | 1711.5             | 18.61                     | 17.70 | 16.62 |            |       |       |
|                        | 8RB_4                 | 1753.5             | 18.57                     | 17.64 | 16.56 |            |       |       |
|                        |                       | 1732.5             | 18.56                     | 17.59 | 16.54 |            |       |       |
|                        |                       | 1711.5             | 18.62                     | 17.70 | 16.62 |            |       |       |
|                        | 8RB_0                 | 1753.5             | 18.58                     | 17.65 | 16.60 |            |       |       |
|                        |                       | 1732.5             | 18.62                     | 17.66 | 16.59 |            |       |       |
|                        |                       | 1711.5             | 18.64                     | 17.68 | 16.63 |            |       |       |
|                        | 15RB_0                | 1753.5             | 18.60                     | 17.61 | 16.56 |            |       |       |
|                        |                       | 1732.5             | 18.57                     | 17.62 | 16.56 |            |       |       |
|                        |                       | 1711.5             | 18.63                     | 17.63 | 16.59 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1752.5             | 19.57                     | 18.90 | 17.73 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.60                     | 18.90 | 17.73 |            |       |       |
|                        |                       | 1712.5             | 19.62                     | 18.94 | 17.78 |            |       |       |
|                        | 1RB_12                | 1752.5             | 19.60                     | 18.88 | 17.79 |            |       |       |
|                        |                       | 1732.5             | 19.65                     | 18.93 | 17.77 |            |       |       |
|                        |                       | 1712.5             | 19.65                     | 18.99 | 17.82 |            |       |       |
|                        | 1RB_0                 | 1752.5             | 19.61                     | 18.90 | 17.74 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 18.91 | 17.75 |            |       |       |
|                        |                       | 1712.5             | 19.63                     | 19.01 | 17.77 |            |       |       |
|                        | 12RB_13               | 1752.5             | 18.56                     | 17.59 | 16.60 | 20.0       | 19.0  | 18.0  |
|                        |                       | 1732.5             | 18.57                     | 17.53 | 16.59 |            |       |       |
|                        |                       | 1712.5             | 18.64                     | 17.58 | 16.59 |            |       |       |
|                        | 12RB_6                | 1752.5             | 18.62                     | 17.57 | 16.60 |            |       |       |
|                        |                       | 1732.5             | 18.63                     | 17.60 | 16.62 |            |       |       |
|                        |                       | 1712.5             | 18.64                     | 17.61 | 16.62 |            |       |       |
|                        | 12RB_0                | 1752.5             | 18.64                     | 17.62 | 16.62 |            |       |       |
|                        |                       | 1732.5             | 18.64                     | 17.66 | 16.64 |            |       |       |
|                        |                       | 1712.5             | 18.65                     | 17.60 | 16.62 |            |       |       |
|                        | 25RB_0                | 1752.5             | 18.61                     | 17.63 | 16.57 |            |       |       |
|                        |                       | 1732.5             | 18.64                     | 17.62 | 16.60 |            |       |       |
|                        |                       | 1712.5             | 18.66                     | 17.65 | 16.60 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1750.0             | 19.57                     | 18.83 | 17.67 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.58                     | 18.88 | 17.66 |            |       |       |
|                        |                       | 1715.0             | 19.60                     | 18.87 | 17.73 |            |       |       |
|                        | 1RB_24                | 1750.0             | 19.63                     | 18.91 | 17.71 |            |       |       |
|                        |                       | 1732.5             | 19.64                     | 18.92 | 17.71 |            |       |       |
|                        |                       | 1715.0             | 19.64                     | 18.92 | 17.78 |            |       |       |
|                        | 1RB_0                 | 1750.0             | 19.62                     | 18.93 | 17.72 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 18.94 | 17.71 |            |       |       |
|                        |                       | 1715.0             | 19.66                     | 18.91 | 17.77 |            |       |       |
|                        | 25RB_25               | 1750.0             | 18.64                     | 17.66 | 16.60 | 20.0       | 19.0  | 18.0  |
|                        |                       | 1732.5             | 18.61                     | 17.57 | 16.53 |            |       |       |
|                        |                       | 1715.0             | 18.64                     | 17.64 | 16.62 |            |       |       |
|                        | 25RB_12               | 1750.0             | 18.62                     | 17.61 | 16.58 |            |       |       |
|                        |                       | 1732.5             | 18.63                     | 17.61 | 16.56 |            |       |       |
|                        |                       | 1715.0             | 18.64                     | 17.64 | 16.60 |            |       |       |
|                        | 25RB_0                | 1750.0             | 18.59                     | 17.59 | 16.55 |            |       |       |
|                        |                       | 1732.5             | 18.67                     | 17.62 | 16.63 |            |       |       |
|                        |                       | 1715.0             | 18.65                     | 17.62 | 16.56 |            |       |       |
|                        | 50RB_0                | 1750.0             | 18.65                     | 17.62 | 16.58 |            |       |       |
|                        |                       | 1732.5             | 18.64                     | 17.58 | 16.58 |            |       |       |
|                        |                       | 1715.0             | 18.64                     | 17.64 | 16.61 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1747.5             | 19.46                     | 18.82 | 17.68 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.49                     | 18.83 | 17.66 |            |       |       |
|                        |                       | 1717.5             | 19.55                     | 18.86 | 17.62 |            |       |       |
|                        | 1RB_37                | 1747.5             | 19.61                     | 18.94 | 17.79 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 18.90 | 17.78 |            |       |       |
|                        |                       | 1717.5             | 19.62                     | 18.89 | 17.70 |            |       |       |
|                        | 1RB_0                 | 1747.5             | 19.57                     | 18.93 | 17.76 |            |       |       |
|                        |                       | 1732.5             | 19.61                     | 18.90 | 17.75 |            |       |       |
|                        |                       | 1717.5             | 19.63                     | 18.92 | 17.66 |            |       |       |
|                        | 36RB_38               | 1747.5             | 18.58                     | 17.65 | 16.60 | 20.0       | 19.0  | 18.0  |
|                        |                       | 1732.5             | 18.57                     | 17.51 | 16.48 |            |       |       |
|                        |                       | 1717.5             | 18.54                     | 17.57 | 16.53 |            |       |       |
|                        | 36RB_19               | 1747.5             | 18.62                     | 17.61 | 16.56 |            |       |       |
|                        |                       | 1732.5             | 18.60                     | 17.57 | 16.57 |            |       |       |
|                        |                       | 1717.5             | 18.61                     | 17.64 | 16.58 |            |       |       |
|                        | 36RB_0                | 1747.5             | 18.57                     | 17.57 | 16.53 |            |       |       |
|                        |                       | 1732.5             | 18.59                     | 17.60 | 16.61 |            |       |       |
|                        |                       | 1717.5             | 18.54                     | 17.58 | 16.55 |            |       |       |
|                        | 75RB_0                | 1747.5             | 18.61                     | 17.56 | 16.54 |            |       |       |
|                        |                       | 1732.5             | 18.57                     | 17.54 | 16.56 |            |       |       |
|                        |                       | 1717.5             | 18.59                     | 17.60 | 16.57 |            |       |       |

| Ant.5 - Power Level B1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1745.0             | 19.49                     | 18.81 | 17.53 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.48                     | 18.80 | 17.66 |            |       |       |
|                        |                       | 1720.0             | 19.50                     | 18.81 | 17.65 |            |       |       |
|                        | 1RB_50                | 1745.0             | 19.65                     | 18.93 | 17.63 |            |       |       |
|                        |                       | 1732.5             | 19.61                     | 18.91 | 17.70 |            |       |       |
|                        |                       | 1720.0             | 19.59                     | 18.91 | 17.78 |            |       |       |
|                        | 1RB_0                 | 1745.0             | 19.58                     | 18.90 | 17.61 |            |       |       |
|                        |                       | 1732.5             | 19.57                     | 18.90 | 17.71 |            |       |       |
|                        |                       | 1720.0             | 19.56                     | 18.89 | 17.72 |            |       |       |
|                        | 50RB_50               | 1745.0             | 18.62                     | 17.60 | 16.58 | 20.0       | 19.0  | 18.0  |
|                        |                       | 1732.5             | 18.51                     | 17.53 | 16.47 |            |       |       |
|                        |                       | 1720.0             | 18.60                     | 17.57 | 16.52 |            |       |       |
|                        | 50RB_25               | 1745.0             | 18.69                     | 17.58 | 16.58 |            |       |       |
|                        |                       | 1732.5             | 18.64                     | 17.63 | 16.54 |            |       |       |
|                        |                       | 1720.0             | 18.68                     | 17.58 | 16.56 |            |       |       |
|                        | 50RB_0                | 1745.0             | 18.66                     | 17.60 | 16.59 |            |       |       |
|                        |                       | 1732.5             | 18.60                     | 17.59 | 16.55 |            |       |       |
|                        |                       | 1720.0             | 18.56                     | 17.59 | 16.55 |            |       |       |
|                        | 100RB_0               | 1745.0             | 18.63                     | 17.59 | 16.56 |            |       |       |
|                        |                       | 1732.5             | 18.59                     | 17.53 | 16.53 |            |       |       |
|                        |                       | 1720.0             | 18.58                     | 17.56 | 16.53 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1754.3             | 20.58                     | 19.81 | 18.72 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1732.5             | 20.59                     | 19.85 | 18.74 |            |       |       |
|                        |                       | 1710.7             | 20.58                     | 19.88 | 18.77 |            |       |       |
|                        | 1RB_3                 | 1754.3             | 20.60                     | 19.86 | 18.77 |            |       |       |
|                        |                       | 1732.5             | 20.61                     | 19.91 | 18.77 |            |       |       |
|                        |                       | 1710.7             | 20.61                     | 19.92 | 18.79 |            |       |       |
|                        | 1RB_0                 | 1754.3             | 20.61                     | 19.87 | 18.82 |            |       |       |
|                        |                       | 1732.5             | 20.62                     | 19.91 | 18.78 |            |       |       |
|                        |                       | 1710.7             | 20.61                     | 19.91 | 18.80 |            |       |       |
|                        | 3RB_3                 | 1754.3             | 20.62                     | 19.63 | 18.71 |            |       |       |
|                        |                       | 1732.5             | 20.60                     | 19.56 | 18.70 |            |       |       |
|                        |                       | 1710.7             | 20.66                     | 19.65 | 18.76 |            |       |       |
|                        | 3RB_1                 | 1754.3             | 20.62                     | 19.63 | 18.69 |            |       |       |
|                        |                       | 1732.5             | 20.63                     | 19.62 | 18.72 |            |       |       |
|                        |                       | 1710.7             | 20.67                     | 19.65 | 18.74 |            |       |       |
|                        | 3RB_0                 | 1754.3             | 20.61                     | 19.64 | 18.70 |            |       |       |
|                        |                       | 1732.5             | 20.63                     | 19.63 | 18.74 |            |       |       |
|                        |                       | 1710.7             | 20.66                     | 19.68 | 18.74 |            |       |       |
|                        | 6RB_0                 | 1754.3             | 19.62                     | 18.65 | 17.59 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.62                     | 18.66 | 17.59 |            |       |       |
|                        |                       | 1710.7             | 19.64                     | 18.71 | 17.58 |            |       |       |



| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1753.5             | 20.58                     | 19.89 | 18.76 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1732.5             | 20.57                     | 19.89 | 18.74 |            |       |       |
|                        |                       | 1711.5             | 20.61                     | 19.91 | 18.78 |            |       |       |
|                        | 1RB_7                 | 1753.5             | 20.59                     | 19.91 | 18.79 |            |       |       |
|                        |                       | 1732.5             | 20.59                     | 19.95 | 18.75 |            |       |       |
|                        |                       | 1711.5             | 20.63                     | 19.96 | 18.83 |            |       |       |
|                        | 1RB_0                 | 1753.5             | 20.60                     | 19.93 | 18.76 |            |       |       |
|                        |                       | 1732.5             | 20.61                     | 19.92 | 18.75 |            |       |       |
|                        |                       | 1711.5             | 20.62                     | 19.94 | 18.80 |            |       |       |
|                        | 8RB_7                 | 1753.5             | 19.60                     | 18.66 | 17.64 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.57                     | 18.64 | 17.61 |            |       |       |
|                        |                       | 1711.5             | 19.61                     | 18.70 | 17.68 |            |       |       |
|                        | 8RB_4                 | 1753.5             | 19.60                     | 18.64 | 17.63 |            |       |       |
|                        |                       | 1732.5             | 19.60                     | 18.64 | 17.62 |            |       |       |
|                        |                       | 1711.5             | 19.64                     | 18.69 | 17.68 |            |       |       |
|                        | 8RB_0                 | 1753.5             | 19.59                     | 18.67 | 17.61 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 18.69 | 17.64 |            |       |       |
|                        |                       | 1711.5             | 19.65                     | 18.73 | 17.67 |            |       |       |
|                        | 15RB_0                | 1753.5             | 19.60                     | 18.64 | 17.61 |            |       |       |
|                        |                       | 1732.5             | 19.57                     | 18.59 | 17.60 |            |       |       |
|                        |                       | 1711.5             | 19.63                     | 18.67 | 17.63 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1752.5             | 20.59                     | 19.87 | 18.75 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1732.5             | 20.62                     | 19.86 | 18.78 |            |       |       |
|                        |                       | 1712.5             | 20.66                     | 19.90 | 18.80 |            |       |       |
|                        | 1RB_12                | 1752.5             | 20.64                     | 19.94 | 18.82 |            |       |       |
|                        |                       | 1732.5             | 20.66                     | 19.88 | 18.84 |            |       |       |
|                        |                       | 1712.5             | 20.67                     | 19.87 | 18.87 |            |       |       |
|                        | 1RB_0                 | 1752.5             | 20.62                     | 19.92 | 18.78 |            |       |       |
|                        |                       | 1732.5             | 20.64                     | 19.90 | 18.82 |            |       |       |
|                        |                       | 1712.5             | 20.67                     | 19.91 | 18.81 |            |       |       |
|                        | 12RB_13               | 1752.5             | 19.64                     | 18.60 | 17.59 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.59                     | 18.56 | 17.59 |            |       |       |
|                        |                       | 1712.5             | 19.66                     | 18.59 | 17.62 |            |       |       |
|                        | 12RB_6                | 1752.5             | 19.63                     | 18.61 | 17.63 |            |       |       |
|                        |                       | 1732.5             | 19.65                     | 18.64 | 17.67 |            |       |       |
|                        |                       | 1712.5             | 19.66                     | 18.64 | 17.66 |            |       |       |
|                        | 12RB_0                | 1752.5             | 19.62                     | 18.65 | 17.68 |            |       |       |
|                        |                       | 1732.5             | 19.65                     | 18.64 | 17.66 |            |       |       |
|                        |                       | 1712.5             | 19.63                     | 18.64 | 17.69 |            |       |       |
|                        | 25RB_0                | 1752.5             | 19.64                     | 18.64 | 17.64 |            |       |       |
|                        |                       | 1732.5             | 19.67                     | 18.63 | 17.63 |            |       |       |
|                        |                       | 1712.5             | 19.67                     | 18.66 | 17.65 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1750.0             | 20.60                     | 19.94 | 18.74 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1732.5             | 20.63                     | 19.89 | 18.76 |            |       |       |
|                        |                       | 1715.0             | 20.63                     | 19.92 | 18.73 |            |       |       |
|                        | 1RB_24                | 1750.0             | 20.65                     | 19.98 | 18.78 |            |       |       |
|                        |                       | 1732.5             | 20.65                     | 19.97 | 18.84 |            |       |       |
|                        |                       | 1715.0             | 20.66                     | 19.97 | 18.82 |            |       |       |
|                        | 1RB_0                 | 1750.0             | 20.65                     | 19.97 | 18.84 |            |       |       |
|                        |                       | 1732.5             | 20.66                     | 19.98 | 18.80 |            |       |       |
|                        |                       | 1715.0             | 20.67                     | 19.99 | 18.81 |            |       |       |
|                        | 25RB_25               | 1750.0             | 19.63                     | 18.65 | 17.60 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.60                     | 18.57 | 17.57 |            |       |       |
|                        |                       | 1715.0             | 19.65                     | 18.67 | 17.63 |            |       |       |
|                        | 25RB_12               | 1750.0             | 19.61                     | 18.63 | 17.59 |            |       |       |
|                        |                       | 1732.5             | 19.61                     | 18.60 | 17.63 |            |       |       |
|                        |                       | 1715.0             | 19.64                     | 18.65 | 17.65 |            |       |       |
|                        | 25RB_0                | 1750.0             | 19.58                     | 18.61 | 17.60 |            |       |       |
|                        |                       | 1732.5             | 19.67                     | 18.67 | 17.68 |            |       |       |
|                        |                       | 1715.0             | 19.64                     | 18.63 | 17.65 |            |       |       |
|                        | 50RB_0                | 1750.0             | 19.66                     | 18.63 | 17.62 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 18.59 | 17.62 |            |       |       |
|                        |                       | 1715.0             | 19.73                     | 18.65 | 17.62 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1747.5             | 20.52                     | 19.81 | 18.68 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1732.5             | 20.52                     | 19.86 | 18.68 |            |       |       |
|                        |                       | 1717.5             | 20.53                     | 19.81 | 18.76 |            |       |       |
|                        | 1RB_37                | 1747.5             | 20.63                     | 19.88 | 18.78 |            |       |       |
|                        |                       | 1732.5             | 20.62                     | 19.96 | 18.74 |            |       |       |
|                        |                       | 1717.5             | 20.63                     | 19.92 | 18.86 |            |       |       |
|                        | 1RB_0                 | 1747.5             | 20.64                     | 19.90 | 18.76 |            |       |       |
|                        |                       | 1732.5             | 20.60                     | 19.90 | 18.77 |            |       |       |
|                        |                       | 1717.5             | 20.61                     | 19.87 | 18.83 |            |       |       |
|                        | 36RB_38               | 1747.5             | 19.64                     | 18.62 | 17.61 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.53                     | 18.57 | 17.61 |            |       |       |
|                        |                       | 1717.5             | 19.62                     | 18.58 | 17.61 |            |       |       |
|                        | 36RB_19               | 1747.5             | 19.62                     | 18.64 | 17.61 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 18.59 | 17.63 |            |       |       |
|                        |                       | 1717.5             | 19.64                     | 18.59 | 17.63 |            |       |       |
|                        | 36RB_0                | 1747.5             | 19.63                     | 18.60 | 17.60 |            |       |       |
|                        |                       | 1732.5             | 19.65                     | 18.65 | 17.63 |            |       |       |
|                        |                       | 1717.5             | 19.62                     | 18.61 | 17.64 |            |       |       |
|                        | 75RB_0                | 1747.5             | 19.63                     | 18.57 | 17.56 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 18.58 | 17.58 |            |       |       |
|                        |                       | 1717.5             | 19.63                     | 18.64 | 17.63 |            |       |       |

| Ant.5 - Power Level C1 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1745.0             | 20.49                     | 19.75 | 18.70 | 22.0       | 21.0  | 20.0  |
|                        |                       | 1732.5             | 20.50                     | 19.72 | 18.59 |            |       |       |
|                        |                       | 1720.0             | 20.49                     | 19.79 | 18.57 |            |       |       |
|                        | 1RB_50                | 1745.0             | 20.63                     | 19.89 | 18.84 |            |       |       |
|                        |                       | 1732.5             | 20.60                     | 19.86 | 18.72 |            |       |       |
|                        |                       | 1720.0             | 20.61                     | 19.92 | 18.70 |            |       |       |
|                        | 1RB_0                 | 1745.0             | 20.62                     | 19.82 | 18.79 |            |       |       |
|                        |                       | 1732.5             | 20.58                     | 19.84 | 18.68 |            |       |       |
|                        |                       | 1720.0             | 20.57                     | 19.88 | 18.64 |            |       |       |
|                        | 50RB_50               | 1745.0             | 19.62                     | 18.62 | 17.58 | 21.0       | 20.0  | 19.0  |
|                        |                       | 1732.5             | 19.58                     | 18.56 | 17.58 |            |       |       |
|                        |                       | 1720.0             | 19.60                     | 18.60 | 17.59 |            |       |       |
|                        | 50RB_25               | 1745.0             | 19.72                     | 18.63 | 17.63 |            |       |       |
|                        |                       | 1732.5             | 19.64                     | 18.61 | 17.63 |            |       |       |
|                        |                       | 1720.0             | 19.71                     | 18.65 | 17.67 |            |       |       |
|                        | 50RB_0                | 1745.0             | 19.67                     | 18.64 | 17.66 |            |       |       |
|                        |                       | 1732.5             | 19.61                     | 18.63 | 17.63 |            |       |       |
|                        |                       | 1720.0             | 19.59                     | 18.58 | 17.61 |            |       |       |
|                        | 100RB_0               | 1745.0             | 19.68                     | 18.60 | 17.57 |            |       |       |
|                        |                       | 1732.5             | 19.61                     | 18.59 | 17.56 |            |       |       |
|                        |                       | 1720.0             | 19.66                     | 18.57 | 17.60 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1754.3             | 14.06                     | 14.04 | 14.05 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.05                     | 14.11 | 14.16 |            |       |       |
|                        |                       | 1710.7             | 13.96                     | 14.04 | 14.01 |            |       |       |
|                        | 1RB_3                 | 1754.3             | 14.18                     | 14.18 | 14.18 |            |       |       |
|                        |                       | 1732.5             | 14.24                     | 14.19 | 14.10 |            |       |       |
|                        |                       | 1710.7             | 14.17                     | 14.12 | 14.21 |            |       |       |
|                        | 1RB_0                 | 1754.3             | 14.01                     | 14.14 | 14.02 |            |       |       |
|                        |                       | 1732.5             | 14.09                     | 14.09 | 14.05 |            |       |       |
|                        |                       | 1710.7             | 14.06                     | 14.12 | 14.06 |            |       |       |
|                        | 3RB_3                 | 1754.3             | 14.08                     | 14.03 | 14.15 |            |       |       |
|                        |                       | 1732.5             | 14.03                     | 14.15 | 14.25 |            |       |       |
|                        |                       | 1710.7             | 14.00                     | 14.02 | 14.14 |            |       |       |
|                        | 3RB_1                 | 1754.3             | 14.16                     | 14.17 | 14.10 |            |       |       |
|                        |                       | 1732.5             | 14.20                     | 14.19 | 14.11 |            |       |       |
|                        |                       | 1710.7             | 14.20                     | 14.10 | 14.08 |            |       |       |
|                        | 3RB_0                 | 1754.3             | 14.11                     | 14.07 | 14.03 |            |       |       |
|                        |                       | 1732.5             | 14.11                     | 14.12 | 14.11 |            |       |       |
|                        |                       | 1710.7             | 13.98                     | 14.08 | 14.10 |            |       |       |
|                        | 6RB_0                 | 1754.3             | 14.09                     | 14.10 | 14.18 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.14                     | 14.05 | 14.06 |            |       |       |
|                        |                       | 1710.7             | 13.99                     | 14.10 | 13.90 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1753.5             | 14.07                     | 14.05 | 14.07 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.03                     | 14.07 | 14.14 |            |       |       |
|                        |                       | 1711.5             | 13.99                     | 14.05 | 13.99 |            |       |       |
|                        | 1RB_7                 | 1753.5             | 14.20                     | 14.17 | 14.17 |            |       |       |
|                        |                       | 1732.5             | 14.25                     | 14.22 | 14.12 |            |       |       |
|                        |                       | 1711.5             | 14.19                     | 14.15 | 14.20 |            |       |       |
|                        | 1RB_0                 | 1753.5             | 14.02                     | 14.11 | 14.00 |            |       |       |
|                        |                       | 1732.5             | 14.07                     | 14.07 | 14.03 |            |       |       |
|                        |                       | 1711.5             | 14.04                     | 14.12 | 14.08 |            |       |       |
|                        | 8RB_7                 | 1753.5             | 14.12                     | 14.04 | 14.16 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.06                     | 14.17 | 14.22 |            |       |       |
|                        |                       | 1711.5             | 14.04                     | 14.02 | 14.11 |            |       |       |
|                        | 8RB_4                 | 1753.5             | 14.16                     | 14.17 | 14.08 |            |       |       |
|                        |                       | 1732.5             | 14.17                     | 14.16 | 14.11 |            |       |       |
|                        |                       | 1711.5             | 14.21                     | 14.08 | 14.08 |            |       |       |
|                        | 8RB_0                 | 1753.5             | 14.11                     | 14.06 | 13.99 |            |       |       |
|                        |                       | 1732.5             | 14.11                     | 14.14 | 14.11 |            |       |       |
|                        |                       | 1711.5             | 13.95                     | 14.07 | 14.09 |            |       |       |
|                        | 15RB_0                | 1753.5             | 14.08                     | 14.12 | 14.15 |            |       |       |
|                        |                       | 1732.5             | 14.16                     | 14.04 | 14.09 |            |       |       |
|                        |                       | 1711.5             | 14.00                     | 14.10 | 13.93 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1752.5             | 14.07                     | 14.09 | 14.04 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.04                     | 14.09 | 14.11 |            |       |       |
|                        |                       | 1712.5             | 14.00                     | 14.05 | 14.02 |            |       |       |
|                        | 1RB_12                | 1752.5             | 14.22                     | 14.15 | 14.18 |            |       |       |
|                        |                       | 1732.5             | 14.22                     | 14.20 | 14.14 |            |       |       |
|                        |                       | 1712.5             | 14.18                     | 14.16 | 14.16 |            |       |       |
|                        | 1RB_0                 | 1752.5             | 14.06                     | 14.08 | 14.00 |            |       |       |
|                        |                       | 1732.5             | 14.03                     | 14.05 | 14.02 |            |       |       |
|                        |                       | 1712.5             | 14.06                     | 14.11 | 14.05 |            |       |       |
|                        | 12RB_13               | 1752.5             | 14.09                     | 14.08 | 14.18 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.09                     | 14.14 | 14.22 |            |       |       |
|                        |                       | 1712.5             | 14.07                     | 14.03 | 14.08 |            |       |       |
|                        | 12RB_6                | 1752.5             | 14.14                     | 14.21 | 14.09 |            |       |       |
|                        |                       | 1732.5             | 14.19                     | 14.15 | 14.14 |            |       |       |
|                        |                       | 1712.5             | 14.17                     | 14.07 | 14.08 |            |       |       |
|                        | 12RB_0                | 1752.5             | 14.08                     | 14.05 | 14.03 |            |       |       |
|                        |                       | 1732.5             | 14.13                     | 14.18 | 14.12 |            |       |       |
|                        |                       | 1712.5             | 13.96                     | 14.06 | 14.09 |            |       |       |
|                        | 25RB_0                | 1752.5             | 14.09                     | 14.10 | 14.17 |            |       |       |
|                        |                       | 1732.5             | 14.14                     | 14.06 | 14.09 |            |       |       |
|                        |                       | 1712.5             | 14.00                     | 14.07 | 13.94 |            |       |       |



| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1750.0             | 14.07                     | 14.07 | 14.02 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.05                     | 14.06 | 14.08 |            |       |       |
|                        |                       | 1715.0             | 14.02                     | 14.09 | 14.05 |            |       |       |
|                        | 1RB_24                | 1750.0             | 14.22                     | 14.13 | 14.21 |            |       |       |
|                        |                       | 1732.5             | 14.21                     | 14.19 | 14.16 |            |       |       |
|                        |                       | 1715.0             | 14.16                     | 14.12 | 14.20 |            |       |       |
|                        | 1RB_0                 | 1750.0             | 14.08                     | 14.08 | 14.03 |            |       |       |
|                        |                       | 1732.5             | 14.05                     | 14.03 | 14.03 |            |       |       |
|                        |                       | 1715.0             | 14.06                     | 14.08 | 14.07 |            |       |       |
|                        | 25RB_25               | 1750.0             | 14.10                     | 14.06 | 14.16 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.12                     | 14.11 | 14.22 |            |       |       |
|                        |                       | 1715.0             | 14.08                     | 14.05 | 14.08 |            |       |       |
|                        | 25RB_12               | 1750.0             | 14.12                     | 14.20 | 14.12 |            |       |       |
|                        |                       | 1732.5             | 14.19                     | 14.13 | 14.10 |            |       |       |
|                        |                       | 1715.0             | 14.13                     | 14.11 | 14.05 |            |       |       |
|                        | 25RB_0                | 1750.0             | 14.08                     | 14.04 | 14.01 |            |       |       |
|                        |                       | 1732.5             | 14.11                     | 14.16 | 14.10 |            |       |       |
|                        |                       | 1715.0             | 13.99                     | 14.04 | 14.07 |            |       |       |
|                        | 50RB_0                | 1750.0             | 14.11                     | 14.14 | 14.16 |            |       |       |
|                        |                       | 1732.5             | 14.17                     | 14.07 | 14.06 |            |       |       |
|                        |                       | 1715.0             | 14.03                     | 14.09 | 13.94 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1747.5             | 14.07                     | 14.06 | 14.03 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.06                     | 14.05 | 14.08 |            |       |       |
|                        |                       | 1717.5             | 14.01                     | 14.06 | 14.05 |            |       |       |
|                        | 1RB_37                | 1747.5             | 14.20                     | 14.12 | 14.17 |            |       |       |
|                        |                       | 1732.5             | 14.22                     | 14.19 | 14.12 |            |       |       |
|                        |                       | 1717.5             | 14.17                     | 14.13 | 14.20 |            |       |       |
|                        | 1RB_0                 | 1747.5             | 14.09                     | 14.06 | 14.04 |            |       |       |
|                        |                       | 1732.5             | 14.07                     | 14.06 | 14.05 |            |       |       |
|                        |                       | 1717.5             | 14.03                     | 14.06 | 14.10 |            |       |       |
|                        | 36RB_38               | 1747.5             | 14.08                     | 14.04 | 14.14 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1732.5             | 14.12                     | 14.14 | 14.18 |            |       |       |
|                        |                       | 1717.5             | 14.04                     | 14.06 | 14.05 |            |       |       |
|                        | 36RB_19               | 1747.5             | 14.13                     | 14.20 | 14.10 |            |       |       |
|                        |                       | 1732.5             | 14.16                     | 14.10 | 14.10 |            |       |       |
|                        |                       | 1717.5             | 14.12                     | 14.12 | 14.09 |            |       |       |
|                        | 36RB_0                | 1747.5             | 14.09                     | 14.06 | 14.04 |            |       |       |
|                        |                       | 1732.5             | 14.11                     | 14.13 | 14.07 |            |       |       |
|                        |                       | 1717.5             | 14.03                     | 14.07 | 14.04 |            |       |       |
|                        | 75RB_0                | 1747.5             | 14.12                     | 14.12 | 14.13 |            |       |       |
|                        |                       | 1732.5             | 14.14                     | 14.07 | 14.09 |            |       |       |
|                        |                       | 1717.5             | 14.06                     | 14.09 | 13.98 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1745.0             | 14.07                     | 14.10 | 14.04 | 24.5       | 23.5  | 22.5  |
|                        |                       | 1732.5             | 14.07                     | 14.07 | 14.05 |            |       |       |
|                        |                       | 1720.0             | 14.05                     | 14.05 | 14.07 |            |       |       |
|                        | 1RB_50                | 1745.0             | 14.18                     | 14.15 | 14.15 |            |       |       |
|                        |                       | 1732.5             | 14.21                     | 14.21 | 14.15 |            |       |       |
|                        |                       | 1720.0             | 14.18                     | 14.17 | 14.18 |            |       |       |
|                        | 1RB_0                 | 1745.0             | 14.07                     | 14.07 | 14.05 |            |       |       |
|                        |                       | 1732.5             | 14.08                     | 14.07 | 14.05 |            |       |       |
|                        |                       | 1720.0             | 14.04                     | 14.08 | 14.06 |            |       |       |
|                        | 50RB_50               | 1745.0             | 14.11                     | 14.08 | 14.15 | 23.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 14.13                     | 14.14 | 14.15 |            |       |       |
|                        |                       | 1720.0             | 14.07                     | 14.04 | 14.08 |            |       |       |
|                        | 50RB_25               | 1745.0             | 14.12                     | 14.16 | 14.12 |            |       |       |
|                        |                       | 1732.5             | 14.15                     | 14.12 | 14.13 |            |       |       |
|                        |                       | 1720.0             | 14.13                     | 14.16 | 14.11 |            |       |       |
|                        | 50RB_0                | 1745.0             | 14.07                     | 14.08 | 14.06 |            |       |       |
|                        |                       | 1732.5             | 14.12                     | 14.15 | 14.09 |            |       |       |
|                        |                       | 1720.0             | 14.06                     | 14.06 | 14.05 |            |       |       |
|                        | 100RB_0               | 1745.0             | 14.10                     | 14.09 | 14.11 |            |       |       |
|                        |                       | 1732.5             | 14.11                     | 14.11 | 14.13 |            |       |       |
|                        |                       | 1720.0             | 14.05                     | 14.05 | 14.01 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1754.3             | 19.60                     | 19.74 | 19.62 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.58                     | 19.57 | 19.55 |            |       |       |
|                        |                       | 1710.7             | 19.50                     | 19.54 | 19.62 |            |       |       |
|                        | 1RB_3                 | 1754.3             | 19.71                     | 19.66 | 19.76 |            |       |       |
|                        |                       | 1732.5             | 19.71                     | 19.85 | 19.71 |            |       |       |
|                        |                       | 1710.7             | 19.87                     | 19.73 | 19.74 |            |       |       |
|                        | 1RB_0                 | 1754.3             | 19.51                     | 19.58 | 19.58 |            |       |       |
|                        |                       | 1732.5             | 19.57                     | 19.67 | 19.54 |            |       |       |
|                        |                       | 1710.7             | 19.58                     | 19.55 | 19.59 |            |       |       |
|                        | 3RB_3                 | 1754.3             | 19.73                     | 19.56 | 19.73 |            |       |       |
|                        |                       | 1732.5             | 19.69                     | 19.66 | 19.62 |            |       |       |
|                        |                       | 1710.7             | 19.56                     | 19.61 | 19.73 |            |       |       |
|                        | 3RB_1                 | 1754.3             | 19.71                     | 19.73 | 19.64 |            |       |       |
|                        |                       | 1732.5             | 19.70                     | 19.60 | 19.75 |            |       |       |
|                        |                       | 1710.7             | 19.69                     | 19.72 | 19.79 |            |       |       |
|                        | 3RB_0                 | 1754.3             | 19.55                     | 19.63 | 19.69 |            |       |       |
|                        |                       | 1732.5             | 19.73                     | 19.76 | 19.73 |            |       |       |
|                        |                       | 1710.7             | 19.62                     | 19.68 | 19.74 |            |       |       |
|                        | 6RB_0                 | 1754.3             | 19.73                     | 19.73 | 19.68 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.60                     | 19.67 | 19.74 |            |       |       |
|                        |                       | 1710.7             | 19.65                     | 19.63 | 19.56 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1753.5             | 19.57                     | 19.72 | 19.65 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.62                     | 19.58 | 19.57 |            |       |       |
|                        |                       | 1711.5             | 19.53                     | 19.53 | 19.63 |            |       |       |
|                        | 1RB_7                 | 1753.5             | 19.73                     | 19.69 | 19.75 |            |       |       |
|                        |                       | 1732.5             | 19.69                     | 19.82 | 19.71 |            |       |       |
|                        |                       | 1711.5             | 19.83                     | 19.77 | 19.72 |            |       |       |
|                        | 1RB_0                 | 1753.5             | 19.55                     | 19.57 | 19.60 |            |       |       |
|                        |                       | 1732.5             | 19.55                     | 19.64 | 19.56 |            |       |       |
|                        |                       | 1711.5             | 19.59                     | 19.55 | 19.58 |            |       |       |
|                        | 8RB_7                 | 1753.5             | 19.72                     | 19.59 | 19.73 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.73                     | 19.69 | 19.63 |            |       |       |
|                        |                       | 1711.5             | 19.58                     | 19.61 | 19.73 |            |       |       |
|                        | 8RB_4                 | 1753.5             | 19.70                     | 19.70 | 19.64 |            |       |       |
|                        |                       | 1732.5             | 19.71                     | 19.63 | 19.74 |            |       |       |
|                        |                       | 1711.5             | 19.67                     | 19.74 | 19.77 |            |       |       |
|                        | 8RB_0                 | 1753.5             | 19.54                     | 19.63 | 19.65 |            |       |       |
|                        |                       | 1732.5             | 19.71                     | 19.78 | 19.77 |            |       |       |
|                        |                       | 1711.5             | 19.61                     | 19.67 | 19.73 |            |       |       |
|                        | 15RB_0                | 1753.5             | 19.72                     | 19.72 | 19.66 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 19.70 | 19.75 |            |       |       |
|                        |                       | 1711.5             | 19.65                     | 19.67 | 19.60 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1752.5             | 19.61                     | 19.69 | 19.63 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.63                     | 19.54 | 19.57 |            |       |       |
|                        |                       | 1712.5             | 19.51                     | 19.55 | 19.64 |            |       |       |
|                        | 1RB_12                | 1752.5             | 19.72                     | 19.69 | 19.71 |            |       |       |
|                        |                       | 1732.5             | 19.72                     | 19.81 | 19.72 |            |       |       |
|                        |                       | 1712.5             | 19.79                     | 19.73 | 19.70 |            |       |       |
|                        | 1RB_0                 | 1752.5             | 19.56                     | 19.57 | 19.62 |            |       |       |
|                        |                       | 1732.5             | 19.58                     | 19.64 | 19.56 |            |       |       |
|                        |                       | 1712.5             | 19.57                     | 19.57 | 19.60 |            |       |       |
|                        | 12RB_13               | 1752.5             | 19.72                     | 19.62 | 19.71 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.71                     | 19.73 | 19.63 |            |       |       |
|                        |                       | 1712.5             | 19.58                     | 19.63 | 19.69 |            |       |       |
|                        | 12RB_6                | 1752.5             | 19.73                     | 19.74 | 19.62 |            |       |       |
|                        |                       | 1732.5             | 19.70                     | 19.66 | 19.71 |            |       |       |
|                        |                       | 1712.5             | 19.64                     | 19.75 | 19.80 |            |       |       |
|                        | 12RB_0                | 1752.5             | 19.57                     | 19.65 | 19.66 |            |       |       |
|                        |                       | 1732.5             | 19.72                     | 19.75 | 19.74 |            |       |       |
|                        |                       | 1712.5             | 19.61                     | 19.67 | 19.71 |            |       |       |
|                        | 25RB_0                | 1752.5             | 19.72                     | 19.69 | 19.69 |            |       |       |
|                        |                       | 1732.5             | 19.64                     | 19.72 | 19.74 |            |       |       |
|                        |                       | 1712.5             | 19.61                     | 19.69 | 19.60 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1750.0             | 19.58                     | 19.65 | 19.61 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.62                     | 19.57 | 19.54 |            |       |       |
|                        |                       | 1715.0             | 19.55                     | 19.58 | 19.62 |            |       |       |
|                        | 1RB_24                | 1750.0             | 19.74                     | 19.70 | 19.73 |            |       |       |
|                        |                       | 1732.5             | 19.75                     | 19.78 | 19.74 |            |       |       |
|                        |                       | 1715.0             | 19.75                     | 19.76 | 19.66 |            |       |       |
|                        | 1RB_0                 | 1750.0             | 19.60                     | 19.57 | 19.63 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 19.63 | 19.56 |            |       |       |
|                        |                       | 1715.0             | 19.59                     | 19.58 | 19.59 |            |       |       |
|                        | 25RB_25               | 1750.0             | 19.68                     | 19.61 | 19.74 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.68                     | 19.72 | 19.64 |            |       |       |
|                        |                       | 1715.0             | 19.59                     | 19.67 | 19.67 |            |       |       |
|                        | 25RB_12               | 1750.0             | 19.72                     | 19.71 | 19.62 |            |       |       |
|                        |                       | 1732.5             | 19.71                     | 19.67 | 19.75 |            |       |       |
|                        |                       | 1715.0             | 19.67                     | 19.72 | 19.78 |            |       |       |
|                        | 25RB_0                | 1750.0             | 19.61                     | 19.65 | 19.65 |            |       |       |
|                        |                       | 1732.5             | 19.73                     | 19.72 | 19.77 |            |       |       |
|                        |                       | 1715.0             | 19.59                     | 19.66 | 19.71 |            |       |       |
|                        | 50RB_0                | 1750.0             | 19.75                     | 19.71 | 19.69 |            |       |       |
|                        |                       | 1732.5             | 19.67                     | 19.73 | 19.75 |            |       |       |
|                        |                       | 1715.0             | 19.59                     | 19.67 | 19.57 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1747.5             | 19.57                     | 19.63 | 19.63 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.58                     | 19.56 | 19.58 |            |       |       |
|                        |                       | 1717.5             | 19.58                     | 19.54 | 19.59 |            |       |       |
|                        | 1RB_37                | 1747.5             | 19.72                     | 19.74 | 19.74 |            |       |       |
|                        |                       | 1732.5             | 19.77                     | 19.79 | 19.77 |            |       |       |
|                        |                       | 1717.5             | 19.72                     | 19.72 | 19.65 |            |       |       |
|                        | 1RB_0                 | 1747.5             | 19.61                     | 19.59 | 19.60 |            |       |       |
|                        |                       | 1732.5             | 19.64                     | 19.60 | 19.59 |            |       |       |
|                        |                       | 1717.5             | 19.61                     | 19.61 | 19.57 |            |       |       |
|                        | 36RB_38               | 1747.5             | 19.66                     | 19.65 | 19.71 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.69                     | 19.74 | 19.67 |            |       |       |
|                        |                       | 1717.5             | 19.63                     | 19.65 | 19.68 |            |       |       |
|                        | 36RB_19               | 1747.5             | 19.73                     | 19.75 | 19.66 |            |       |       |
|                        |                       | 1732.5             | 19.73                     | 19.66 | 19.73 |            |       |       |
|                        |                       | 1717.5             | 19.68                     | 19.71 | 19.74 |            |       |       |
|                        | 36RB_0                | 1747.5             | 19.63                     | 19.63 | 19.65 |            |       |       |
|                        |                       | 1732.5             | 19.72                     | 19.69 | 19.73 |            |       |       |
|                        |                       | 1717.5             | 19.60                     | 19.69 | 19.70 |            |       |       |
|                        | 75RB_0                | 1747.5             | 19.72                     | 19.70 | 19.68 |            |       |       |
|                        |                       | 1732.5             | 19.68                     | 19.70 | 19.74 |            |       |       |
|                        |                       | 1717.5             | 19.63                     | 19.65 | 19.59 |            |       |       |



| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1745.0             | 19.61                     | 19.61 | 19.63 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.61                     | 19.58 | 19.58 |            |       |       |
|                        |                       | 1720.0             | 19.59                     | 19.58 | 19.62 |            |       |       |
|                        | 1RB_50                | 1745.0             | 19.72                     | 19.72 | 19.74 |            |       |       |
|                        |                       | 1732.5             | 19.75                     | 19.81 | 19.74 |            |       |       |
|                        |                       | 1720.0             | 19.72                     | 19.71 | 19.69 |            |       |       |
|                        | 1RB_0                 | 1745.0             | 19.61                     | 19.60 | 19.60 |            |       |       |
|                        |                       | 1732.5             | 19.62                     | 19.64 | 19.58 |            |       |       |
|                        |                       | 1720.0             | 19.58                     | 19.57 | 19.61 |            |       |       |
|                        | 50RB_50               | 1745.0             | 19.69                     | 19.65 | 19.72 | 20.5       | 20.5  | 20.5  |
|                        |                       | 1732.5             | 19.71                     | 19.70 | 19.70 |            |       |       |
|                        |                       | 1720.0             | 19.65                     | 19.64 | 19.67 |            |       |       |
|                        | 50RB_25               | 1745.0             | 19.70                     | 19.72 | 19.66 |            |       |       |
|                        |                       | 1732.5             | 19.73                     | 19.67 | 19.72 |            |       |       |
|                        |                       | 1720.0             | 19.71                     | 19.69 | 19.75 |            |       |       |
|                        | 50RB_0                | 1745.0             | 19.65                     | 19.65 | 19.65 |            |       |       |
|                        |                       | 1732.5             | 19.70                     | 19.69 | 19.69 |            |       |       |
|                        |                       | 1720.0             | 19.64                     | 19.68 | 19.68 |            |       |       |
|                        | 100RB_0               | 1745.0             | 19.68                     | 19.70 | 19.70 |            |       |       |
|                        |                       | 1732.5             | 19.69                     | 19.66 | 19.72 |            |       |       |
|                        |                       | 1720.0             | 19.63                     | 19.64 | 19.62 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1754.3             | 21.59                     | 21.51 | 21.54 | 22.5       | 22.5  | 22.5  |
|                        |                       | 1732.5             | 21.51                     | 21.54 | 21.58 |            |       |       |
|                        |                       | 1710.7             | 21.58                     | 21.47 | 21.52 |            |       |       |
|                        | 1RB_3                 | 1754.3             | 21.68                     | 21.64 | 21.60 |            |       |       |
|                        |                       | 1732.5             | 21.71                     | 21.80 | 21.71 |            |       |       |
|                        |                       | 1710.7             | 21.59                     | 21.69 | 21.65 |            |       |       |
|                        | 1RB_0                 | 1754.3             | 21.51                     | 21.51 | 21.43 |            |       |       |
|                        |                       | 1732.5             | 21.52                     | 21.54 | 21.60 |            |       |       |
|                        |                       | 1710.7             | 21.52                     | 21.45 | 21.62 |            |       |       |
|                        | 3RB_3                 | 1754.3             | 21.52                     | 21.62 | 21.53 |            |       |       |
|                        |                       | 1732.5             | 21.52                     | 21.60 | 21.58 |            |       |       |
|                        |                       | 1710.7             | 21.60                     | 21.52 | 21.72 |            |       |       |
|                        | 3RB_1                 | 1754.3             | 21.58                     | 21.62 | 21.64 |            |       |       |
|                        |                       | 1732.5             | 21.61                     | 21.61 | 21.80 |            |       |       |
|                        |                       | 1710.7             | 21.53                     | 21.60 | 21.57 |            |       |       |
|                        | 3RB_0                 | 1754.3             | 21.52                     | 21.57 | 21.51 |            |       |       |
|                        |                       | 1732.5             | 21.58                     | 21.75 | 21.56 |            |       |       |
|                        |                       | 1710.7             | 21.50                     | 21.57 | 21.45 |            |       |       |
|                        | 6RB_0                 | 1754.3             | 21.59                     | 21.61 | 20.49 | 22.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.58                     | 21.53 | 20.66 |            |       |       |
|                        |                       | 1710.7             | 21.56                     | 21.58 | 20.50 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1753.5             | 21.61                     | 21.49 | 21.51 | 22.5       | 22.5  | 22.5  |
|                        |                       | 1732.5             | 21.53                     | 21.53 | 21.55 |            |       |       |
|                        |                       | 1711.5             | 21.56                     | 21.47 | 21.50 |            |       |       |
|                        | 1RB_7                 | 1753.5             | 21.66                     | 21.66 | 21.57 |            |       |       |
|                        |                       | 1732.5             | 21.69                     | 21.79 | 21.70 |            |       |       |
|                        |                       | 1711.5             | 21.63                     | 21.67 | 21.62 |            |       |       |
|                        | 1RB_0                 | 1753.5             | 21.53                     | 21.53 | 21.46 |            |       |       |
|                        |                       | 1732.5             | 21.55                     | 21.54 | 21.59 |            |       |       |
|                        |                       | 1711.5             | 21.50                     | 21.46 | 21.62 |            |       |       |
|                        | 8RB_7                 | 1753.5             | 21.50                     | 21.65 | 20.56 | 22.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.54                     | 21.62 | 20.59 |            |       |       |
|                        |                       | 1711.5             | 21.57                     | 21.49 | 20.68 |            |       |       |
|                        | 8RB_4                 | 1753.5             | 21.60                     | 21.62 | 20.61 |            |       |       |
|                        |                       | 1732.5             | 21.63                     | 21.65 | 20.78 |            |       |       |
|                        |                       | 1711.5             | 21.53                     | 21.58 | 20.57 |            |       |       |
|                        | 8RB_0                 | 1753.5             | 21.52                     | 21.53 | 20.52 |            |       |       |
|                        |                       | 1732.5             | 21.60                     | 21.74 | 20.60 |            |       |       |
|                        |                       | 1711.5             | 21.52                     | 21.57 | 20.46 |            |       |       |
|                        | 15RB_0                | 1753.5             | 21.58                     | 21.57 | 20.51 |            |       |       |
|                        |                       | 1732.5             | 21.55                     | 21.53 | 20.66 |            |       |       |
|                        |                       | 1711.5             | 21.53                     | 21.61 | 20.49 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1752.5             | 21.58                     | 21.50 | 21.49 | 22.5       | 22.5  | 22.5  |
|                        |                       | 1732.5             | 21.51                     | 21.51 | 21.57 |            |       |       |
|                        |                       | 1712.5             | 21.53                     | 21.49 | 21.51 |            |       |       |
|                        | 1RB_12                | 1752.5             | 21.65                     | 21.65 | 21.60 |            |       |       |
|                        |                       | 1732.5             | 21.70                     | 21.77 | 21.66 |            |       |       |
|                        |                       | 1712.5             | 21.63                     | 21.68 | 21.59 |            |       |       |
|                        | 1RB_0                 | 1752.5             | 21.52                     | 21.51 | 21.48 |            |       |       |
|                        |                       | 1732.5             | 21.51                     | 21.58 | 21.60 |            |       |       |
|                        |                       | 1712.5             | 21.51                     | 21.49 | 21.58 |            |       |       |
|                        | 12RB_13               | 1752.5             | 21.53                     | 21.62 | 20.54 | 22.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.57                     | 21.63 | 20.60 |            |       |       |
|                        |                       | 1712.5             | 21.57                     | 21.52 | 20.65 |            |       |       |
|                        | 12RB_6                | 1752.5             | 21.58                     | 21.61 | 20.64 |            |       |       |
|                        |                       | 1732.5             | 21.62                     | 21.63 | 20.76 |            |       |       |
|                        |                       | 1712.5             | 21.57                     | 21.56 | 20.60 |            |       |       |
|                        | 12RB_0                | 1752.5             | 21.53                     | 21.52 | 20.55 |            |       |       |
|                        |                       | 1732.5             | 21.62                     | 21.71 | 20.62 |            |       |       |
|                        |                       | 1712.5             | 21.52                     | 21.55 | 20.44 |            |       |       |
|                        | 25RB_0                | 1752.5             | 21.62                     | 21.58 | 20.50 |            |       |       |
|                        |                       | 1732.5             | 21.53                     | 21.54 | 20.63 |            |       |       |
|                        |                       | 1712.5             | 21.50                     | 21.58 | 20.48 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1750.0             | 21.56                     | 21.48 | 21.52 | 22.5       | 22.5  | 22.5  |
|                        |                       | 1732.5             | 21.52                     | 21.51 | 21.56 |            |       |       |
|                        |                       | 1715.0             | 21.57                     | 21.52 | 21.54 |            |       |       |
|                        | 1RB_24                | 1750.0             | 21.64                     | 21.63 | 21.56 |            |       |       |
|                        |                       | 1732.5             | 21.67                     | 21.74 | 21.65 |            |       |       |
|                        |                       | 1715.0             | 21.66                     | 21.67 | 21.56 |            |       |       |
|                        | 1RB_0                 | 1750.0             | 21.54                     | 21.54 | 21.49 |            |       |       |
|                        |                       | 1732.5             | 21.52                     | 21.56 | 21.59 |            |       |       |
|                        |                       | 1715.0             | 21.48                     | 21.49 | 21.54 |            |       |       |
|                        | 25RB_25               | 1750.0             | 21.56                     | 21.60 | 20.56 | 22.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.59                     | 21.60 | 20.59 |            |       |       |
|                        |                       | 1715.0             | 21.59                     | 21.55 | 20.62 |            |       |       |
|                        | 25RB_12               | 1750.0             | 21.59                     | 21.57 | 20.65 |            |       |       |
|                        |                       | 1732.5             | 21.62                     | 21.62 | 20.75 |            |       |       |
|                        |                       | 1715.0             | 21.57                     | 21.56 | 20.63 |            |       |       |
|                        | 25RB_0                | 1750.0             | 21.56                     | 21.49 | 20.51 |            |       |       |
|                        |                       | 1732.5             | 21.60                     | 21.67 | 20.58 |            |       |       |
|                        |                       | 1715.0             | 21.49                     | 21.51 | 20.45 |            |       |       |
|                        | 50RB_0                | 1750.0             | 21.60                     | 21.56 | 20.47 |            |       |       |
|                        |                       | 1732.5             | 21.54                     | 21.52 | 20.60 |            |       |       |
|                        |                       | 1715.0             | 21.47                     | 21.59 | 20.49 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1747.5             | 21.56                     | 21.49 | 21.50 | 22.5       | 22.5  | 22.5  |
|                        |                       | 1732.5             | 21.54                     | 21.53 | 21.57 |            |       |       |
|                        |                       | 1717.5             | 21.55                     | 21.52 | 21.54 |            |       |       |
|                        | 1RB_37                | 1747.5             | 21.63                     | 21.60 | 21.60 |            |       |       |
|                        |                       | 1732.5             | 21.64                     | 21.74 | 21.64 |            |       |       |
|                        |                       | 1717.5             | 21.65                     | 21.66 | 21.60 |            |       |       |
|                        | 1RB_0                 | 1747.5             | 21.54                     | 21.53 | 21.48 |            |       |       |
|                        |                       | 1732.5             | 21.56                     | 21.53 | 21.55 |            |       |       |
|                        |                       | 1717.5             | 21.47                     | 21.46 | 21.54 |            |       |       |
|                        | 36RB_38               | 1747.5             | 21.57                     | 21.56 | 20.55 | 22.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.60                     | 21.57 | 20.58 |            |       |       |
|                        |                       | 1717.5             | 21.57                     | 21.56 | 20.61 |            |       |       |
|                        | 36RB_19               | 1747.5             | 21.58                     | 21.54 | 20.64 |            |       |       |
|                        |                       | 1732.5             | 21.63                     | 21.66 | 20.78 |            |       |       |
|                        |                       | 1717.5             | 21.59                     | 21.54 | 20.61 |            |       |       |
|                        | 36RB_0                | 1747.5             | 21.55                     | 21.48 | 20.53 |            |       |       |
|                        |                       | 1732.5             | 21.61                     | 21.63 | 20.57 |            |       |       |
|                        |                       | 1717.5             | 21.53                     | 21.47 | 20.47 |            |       |       |
|                        | 75RB_0                | 1747.5             | 21.58                     | 21.54 | 20.48 |            |       |       |
|                        |                       | 1732.5             | 21.55                     | 21.56 | 20.59 |            |       |       |
|                        |                       | 1717.5             | 21.47                     | 21.56 | 20.51 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 4             |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1745.0             | 21.53                     | 21.51 | 21.52 | 22.5       | 22.5  | 22.5  |
|                        |                       | 1732.5             | 21.53                     | 21.50 | 21.55 |            |       |       |
|                        |                       | 1720.0             | 21.51                     | 21.50 | 21.51 |            |       |       |
|                        | 1RB_50                | 1745.0             | 21.64                     | 21.63 | 21.63 |            |       |       |
|                        |                       | 1732.5             | 21.65                     | 21.71 | 21.64 |            |       |       |
|                        |                       | 1720.0             | 21.64                     | 21.62 | 21.61 |            |       |       |
|                        | 1RB_0                 | 1745.0             | 21.53                     | 21.54 | 21.49 |            |       |       |
|                        |                       | 1732.5             | 21.54                     | 21.52 | 21.56 |            |       |       |
|                        |                       | 1720.0             | 21.50                     | 21.47 | 21.53 |            |       |       |
|                        | 50RB_50               | 1745.0             | 21.57                     | 21.54 | 20.58 | 22.5       | 22.5  | 21.5  |
|                        |                       | 1732.5             | 21.59                     | 21.59 | 20.57 |            |       |       |
|                        |                       | 1720.0             | 21.53                     | 21.55 | 20.57 |            |       |       |
|                        | 50RB_25               | 1745.0             | 21.58                     | 21.57 | 20.61 |            |       |       |
|                        |                       | 1732.5             | 21.60                     | 21.63 | 20.76 |            |       |       |
|                        |                       | 1720.0             | 21.59                     | 21.57 | 20.58 |            |       |       |
|                        | 50RB_0                | 1745.0             | 21.53                     | 21.52 | 20.55 |            |       |       |
|                        |                       | 1732.5             | 21.58                     | 21.62 | 20.56 |            |       |       |
|                        |                       | 1720.0             | 21.52                     | 21.50 | 20.49 |            |       |       |
|                        | 100RB_0               | 1745.0             | 21.56                     | 21.55 | 20.52 |            |       |       |
|                        |                       | 1732.5             | 21.57                     | 21.55 | 20.59 |            |       |       |
|                        |                       | 1720.0             | 21.51                     | 21.55 | 20.54 |            |       |       |

| Ant.5 - Power Level A1/B1/C1/A2/B2/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 5                            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width                        | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                                       |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                               | 1RB_5                 | 848.3              | 23.76                     | 22.97 | 21.70 | 25.0       | 24.0  | 23.0  |
|                                       |                       | 836.5              | 23.82                     | 23.02 | 21.83 |            |       |       |
|                                       |                       | 824.7              | 23.79                     | 23.01 | 21.86 |            |       |       |
|                                       | 1RB_3                 | 848.3              | 23.80                     | 22.93 | 21.72 |            |       |       |
|                                       |                       | 836.5              | 23.83                     | 23.04 | 21.84 |            |       |       |
|                                       |                       | 824.7              | 23.76                     | 23.03 | 21.86 |            |       |       |
|                                       | 1RB_0                 | 848.3              | 23.78                     | 22.90 | 21.77 |            |       |       |
|                                       |                       | 836.5              | 23.81                     | 23.01 | 21.88 |            |       |       |
|                                       |                       | 824.7              | 23.80                     | 23.06 | 21.91 |            |       |       |
|                                       | 3RB_3                 | 848.3              | 23.81                     | 22.83 | 21.87 |            |       |       |
|                                       |                       | 836.5              | 23.85                     | 22.85 | 21.85 |            |       |       |
|                                       |                       | 824.7              | 23.85                     | 22.83 | 21.80 |            |       |       |
|                                       | 3RB_1                 | 848.3              | 23.81                     | 22.85 | 21.88 |            |       |       |
|                                       |                       | 836.5              | 23.84                     | 22.81 | 21.84 |            |       |       |
|                                       |                       | 824.7              | 23.88                     | 22.86 | 21.86 |            |       |       |
|                                       | 3RB_0                 | 848.3              | 23.82                     | 22.86 | 21.88 |            |       |       |
|                                       |                       | 836.5              | 23.85                     | 22.81 | 21.85 |            |       |       |
|                                       |                       | 824.7              | 23.84                     | 22.85 | 21.86 |            |       |       |
|                                       | 6RB_0                 | 848.3              | 22.80                     | 21.88 | 20.68 | 24.0       | 23.0  | 22.0  |
|                                       |                       | 836.5              | 22.85                     | 21.86 | 20.74 |            |       |       |
|                                       |                       | 824.7              | 22.84                     | 21.89 | 20.76 |            |       |       |



| Ant.5 - Power Level A1/B1/C1/A2/B2/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 5                            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width                        | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                                       |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                                 | 1RB_14                | 847.5              | 23.81                     | 22.89 | 21.88 | 25.0       | 24.0  | 23.0  |
|                                       |                       | 836.5              | 23.84                     | 23.02 | 21.99 |            |       |       |
|                                       |                       | 825.5              | 23.85                     | 22.97 | 21.92 |            |       |       |
|                                       | 1RB_7                 | 847.5              | 23.78                     | 22.89 | 21.89 |            |       |       |
|                                       |                       | 836.5              | 23.88                     | 23.01 | 22.05 |            |       |       |
|                                       |                       | 825.5              | 23.85                     | 22.92 | 21.86 |            |       |       |
|                                       | 1RB_0                 | 847.5              | 23.82                     | 22.92 | 21.89 |            |       |       |
|                                       |                       | 836.5              | 23.75                     | 22.98 | 21.93 |            |       |       |
|                                       |                       | 825.5              | 23.81                     | 22.89 | 21.76 |            |       |       |
|                                       | 8RB_7                 | 847.5              | 22.77                     | 21.85 | 20.78 | 24.0       | 23.0  | 22.0  |
|                                       |                       | 836.5              | 22.84                     | 21.88 | 20.80 |            |       |       |
|                                       |                       | 825.5              | 22.81                     | 21.87 | 20.81 |            |       |       |
|                                       | 8RB_4                 | 847.5              | 22.77                     | 21.87 | 20.75 |            |       |       |
|                                       |                       | 836.5              | 22.81                     | 21.89 | 20.81 |            |       |       |
|                                       |                       | 825.5              | 22.81                     | 21.90 | 20.80 |            |       |       |
|                                       | 8RB_0                 | 847.5              | 22.79                     | 21.87 | 20.74 |            |       |       |
|                                       |                       | 836.5              | 22.77                     | 21.82 | 20.75 |            |       |       |
|                                       |                       | 825.5              | 22.81                     | 21.88 | 20.70 |            |       |       |
|                                       | 15RB_0                | 847.5              | 22.77                     | 21.80 | 20.77 |            |       |       |
|                                       |                       | 836.5              | 22.78                     | 21.82 | 20.79 |            |       |       |
|                                       |                       | 825.5              | 22.80                     | 21.84 | 20.74 |            |       |       |

| Ant.5 - Power Level A1/B1/C1/A2/B2/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 5                            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width                        | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                                       |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                                 | 1RB_24                | 846.5              | 23.90                     | 23.03 | 21.85 | 25.0       | 24.0  | 23.0  |
|                                       |                       | 836.5              | 23.96                     | 23.09 | 21.97 |            |       |       |
|                                       |                       | 826.5              | 23.94                     | 23.06 | 21.89 |            |       |       |
|                                       | 1RB_12                | 846.5              | 23.93                     | 23.04 | 21.84 |            |       |       |
|                                       |                       | 836.5              | 23.99                     | 23.13 | 22.00 |            |       |       |
|                                       |                       | 826.5              | 23.93                     | 23.03 | 21.95 |            |       |       |
|                                       | 1RB_0                 | 846.5              | 23.88                     | 23.00 | 21.82 |            |       |       |
|                                       |                       | 836.5              | 23.91                     | 23.01 | 21.94 |            |       |       |
|                                       |                       | 826.5              | 23.88                     | 23.05 | 21.86 |            |       |       |
|                                       | 12RB_13               | 846.5              | 22.80                     | 21.79 | 20.74 | 24.0       | 23.0  | 22.0  |
|                                       |                       | 836.5              | 22.81                     | 21.81 | 20.83 |            |       |       |
|                                       |                       | 826.5              | 22.85                     | 21.81 | 20.84 |            |       |       |
|                                       | 12RB_6                | 846.5              | 22.81                     | 21.81 | 20.76 |            |       |       |
|                                       |                       | 836.5              | 22.87                     | 21.84 | 20.83 |            |       |       |
|                                       |                       | 826.5              | 22.86                     | 21.83 | 20.87 |            |       |       |
|                                       | 12RB_0                | 846.5              | 22.88                     | 21.85 | 20.86 |            |       |       |
|                                       |                       | 836.5              | 22.84                     | 21.79 | 20.81 |            |       |       |
|                                       |                       | 826.5              | 22.83                     | 21.80 | 20.86 |            |       |       |
|                                       | 25RB_0                | 846.5              | 22.80                     | 21.81 | 20.81 |            |       |       |
|                                       |                       | 836.5              | 22.86                     | 21.86 | 20.80 |            |       |       |
|                                       |                       | 826.5              | 22.86                     | 21.84 | 20.81 |            |       |       |

| Ant.5 - Power Level A1/B1/C1/A2/B2/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 5                            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width                        | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                                       |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                                | 1RB_49                | 844.0              | 23.97                     | 23.02 | 22.03 | 25.0       | 24.0  | 23.0  |
|                                       |                       | 836.5              | 23.97                     | 23.08 | 22.03 |            |       |       |
|                                       |                       | 829.0              | 23.93                     | 23.08 | 21.93 |            |       |       |
|                                       | 1RB_24                | 844.0              | 23.97                     | 23.03 | 22.00 |            |       |       |
|                                       |                       | 836.5              | 24.01                     | 23.21 | 22.06 |            |       |       |
|                                       |                       | 829.0              | 23.97                     | 23.18 | 22.04 |            |       |       |
|                                       | 1RB_0                 | 844.0              | 23.93                     | 23.04 | 22.01 |            |       |       |
|                                       |                       | 836.5              | 23.96                     | 23.15 | 21.95 |            |       |       |
|                                       |                       | 829.0              | 23.92                     | 23.08 | 21.81 |            |       |       |
|                                       | 25RB_25               | 844.0              | 22.84                     | 21.82 | 20.76 | 24.0       | 23.0  | 22.0  |
|                                       |                       | 836.5              | 22.84                     | 21.86 | 20.80 |            |       |       |
|                                       |                       | 829.0              | 22.89                     | 21.91 | 20.87 |            |       |       |
|                                       | 25RB_12               | 844.0              | 22.88                     | 21.84 | 20.79 |            |       |       |
|                                       |                       | 836.5              | 22.91                     | 21.87 | 20.80 |            |       |       |
|                                       |                       | 829.0              | 22.90                     | 21.86 | 20.83 |            |       |       |
|                                       | 25RB_0                | 844.0              | 22.87                     | 21.85 | 20.77 |            |       |       |
|                                       |                       | 836.5              | 22.83                     | 21.85 | 20.80 |            |       |       |
|                                       |                       | 829.0              | 22.87                     | 21.86 | 20.78 |            |       |       |
|                                       | 50RB_0                | 844.0              | 22.88                     | 21.83 | 20.80 |            |       |       |
|                                       |                       | 836.5              | 22.86                     | 21.86 | 20.79 |            |       |       |
|                                       |                       | 829.0              | 22.89                     | 21.84 | 20.84 |            |       |       |

| Ant.1 - Power Level A2/B2/C2 |                       |                    |                           |       |       |            |       |       |
|------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 5                   |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width               | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                              |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                      | 1RB_5                 | 848.3              | 23.24                     | 22.24 | 21.12 | 25.0       | 24.0  | 23.0  |
|                              |                       | 836.5              | 23.25                     | 22.22 | 21.21 |            |       |       |
|                              |                       | 824.7              | 23.08                     | 22.17 | 21.09 |            |       |       |
|                              | 1RB_3                 | 848.3              | 23.13                     | 22.21 | 21.14 |            |       |       |
|                              |                       | 836.5              | 23.28                     | 22.33 | 21.21 |            |       |       |
|                              |                       | 824.7              | 23.24                     | 22.26 | 21.16 |            |       |       |
|                              | 1RB_0                 | 848.3              | 23.14                     | 22.12 | 21.20 |            |       |       |
|                              |                       | 836.5              | 23.13                     | 22.10 | 21.20 |            |       |       |
|                              |                       | 824.7              | 23.15                     | 22.23 | 21.21 |            |       |       |
|                              | 3RB_3                 | 848.3              | 23.11                     | 22.09 | 21.20 |            |       |       |
|                              |                       | 836.5              | 23.14                     | 22.11 | 21.15 |            |       |       |
|                              |                       | 824.7              | 23.12                     | 22.23 | 21.06 |            |       |       |
|                              | 3RB_1                 | 848.3              | 23.03                     | 22.07 | 21.12 |            |       |       |
|                              |                       | 836.5              | 23.17                     | 22.25 | 21.12 |            |       |       |
|                              |                       | 824.7              | 23.18                     | 22.15 | 21.11 |            |       |       |
|                              | 3RB_0                 | 848.3              | 23.13                     | 22.21 | 21.15 |            |       |       |
|                              |                       | 836.5              | 23.10                     | 22.24 | 21.10 |            |       |       |
|                              |                       | 824.7              | 23.17                     | 22.19 | 21.14 |            |       |       |
|                              | 6RB_0                 | 848.3              | 22.09                     | 21.14 | 20.07 | 24.0       | 23.0  | 22.0  |
|                              |                       | 836.5              | 22.18                     | 21.25 | 20.22 |            |       |       |
|                              |                       | 824.7              | 22.15                     | 21.12 | 20.18 |            |       |       |

| Ant.1 - Power Level A2/B2/C2 |                       |                    |                           |       |       |            |       |       |
|------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 5                   |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width               | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                              |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                        | 1RB_14                | 847.5              | 23.21                     | 22.23 | 21.12 | 25.0       | 24.0  | 23.0  |
|                              |                       | 836.5              | 23.22                     | 22.22 | 21.19 |            |       |       |
|                              |                       | 825.5              | 23.11                     | 22.16 | 21.12 |            |       |       |
|                              | 1RB_7                 | 847.5              | 23.11                     | 22.20 | 21.16 |            |       |       |
|                              |                       | 836.5              | 23.26                     | 22.33 | 21.18 |            |       |       |
|                              |                       | 825.5              | 23.24                     | 22.27 | 21.14 |            |       |       |
|                              | 1RB_0                 | 847.5              | 23.11                     | 22.15 | 21.18 |            |       |       |
|                              |                       | 836.5              | 23.14                     | 22.12 | 21.17 |            |       |       |
|                              |                       | 825.5              | 23.18                     | 22.22 | 21.22 |            |       |       |
|                              | 8RB_7                 | 847.5              | 22.14                     | 21.05 | 20.17 | 24.0       | 23.0  | 22.0  |
|                              |                       | 836.5              | 22.14                     | 21.10 | 20.18 |            |       |       |
|                              |                       | 825.5              | 22.14                     | 21.24 | 20.06 |            |       |       |
|                              | 8RB_4                 | 847.5              | 22.07                     | 21.08 | 20.14 |            |       |       |
|                              |                       | 836.5              | 22.17                     | 21.21 | 20.10 |            |       |       |
|                              |                       | 825.5              | 22.18                     | 21.16 | 20.13 |            |       |       |
|                              | 8RB_0                 | 847.5              | 22.14                     | 21.19 | 20.13 |            |       |       |
|                              |                       | 836.5              | 22.13                     | 21.23 | 20.26 |            |       |       |
|                              |                       | 825.5              | 22.15                     | 21.18 | 20.17 |            |       |       |
|                              | 15RB_0                | 847.5              | 22.10                     | 21.10 | 20.11 |            |       |       |
|                              |                       | 836.5              | 22.17                     | 21.22 | 20.19 |            |       |       |
|                              |                       | 825.5              | 22.13                     | 21.13 | 20.24 |            |       |       |

| Ant.1 - Power Level A2/B2/C2 |                       |                    |                           |       |       |            |       |       |
|------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 5                   |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width               | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                              |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                        | 1RB_24                | 846.5              | 23.20                     | 22.23 | 21.16 | 25.0       | 24.0  | 23.0  |
|                              |                       | 836.5              | 23.22                     | 22.21 | 21.21 |            |       |       |
|                              |                       | 826.5              | 23.12                     | 22.18 | 21.15 |            |       |       |
|                              | 1RB_12                | 846.5              | 23.15                     | 22.17 | 21.18 |            |       |       |
|                              |                       | 836.5              | 23.29                     | 22.32 | 21.17 |            |       |       |
|                              |                       | 826.5              | 23.23                     | 22.29 | 21.13 |            |       |       |
|                              | 1RB_0                 | 846.5              | 23.14                     | 22.16 | 21.19 |            |       |       |
|                              |                       | 836.5              | 23.16                     | 22.14 | 21.18 |            |       |       |
|                              |                       | 826.5              | 23.19                     | 22.21 | 21.18 |            |       |       |
|                              | 12RB_13               | 846.5              | 22.14                     | 21.09 | 20.13 | 24.0       | 23.0  | 22.0  |
|                              |                       | 836.5              | 22.12                     | 21.09 | 20.15 |            |       |       |
|                              |                       | 826.5              | 22.16                     | 21.20 | 20.10 |            |       |       |
|                              | 12RB_6                | 846.5              | 22.11                     | 21.05 | 20.17 |            |       |       |
|                              |                       | 836.5              | 22.16                     | 21.20 | 20.12 |            |       |       |
|                              |                       | 826.5              | 22.17                     | 21.14 | 20.09 |            |       |       |
|                              | 12RB_0                | 846.5              | 22.15                     | 21.15 | 20.12 |            |       |       |
|                              |                       | 836.5              | 22.16                     | 21.21 | 20.22 |            |       |       |
|                              |                       | 826.5              | 22.14                     | 21.18 | 20.19 |            |       |       |
|                              | 25RB_0                | 846.5              | 22.12                     | 21.11 | 20.08 |            |       |       |
|                              |                       | 836.5              | 22.17                     | 21.21 | 20.19 |            |       |       |
|                              |                       | 826.5              | 22.14                     | 21.16 | 20.22 |            |       |       |

| Ant.1 - Power Level A2/B2/C2 |                       |                    |                           |       |       |            |       |       |
|------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 5                   |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width               | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                              |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                       | 1RB_49                | 844.0              | 23.18                     | 22.20 | 21.15 | 25.0       | 24.0  | 23.0  |
|                              |                       | 836.5              | 23.19                     | 22.19 | 21.20 |            |       |       |
|                              |                       | 829.0              | 23.15                     | 22.16 | 21.17 |            |       |       |
|                              | 1RB_24                | 844.0              | 23.18                     | 22.19 | 21.16 |            |       |       |
|                              |                       | 836.5              | 23.28                     | 22.28 | 21.19 |            |       |       |
|                              |                       | 829.0              | 23.26                     | 22.29 | 21.17 |            |       |       |
|                              | 1RB_0                 | 844.0              | 23.17                     | 22.14 | 21.15 |            |       |       |
|                              |                       | 836.5              | 23.20                     | 22.18 | 21.21 |            |       |       |
|                              |                       | 829.0              | 23.18                     | 22.20 | 21.18 |            |       |       |
|                              | 25RB_25               | 844.0              | 22.13                     | 21.12 | 20.15 | 24.0       | 23.0  | 22.0  |
|                              |                       | 836.5              | 22.16                     | 21.12 | 20.13 |            |       |       |
|                              |                       | 829.0              | 22.15                     | 21.17 | 20.13 |            |       |       |
|                              | 25RB_12               | 844.0              | 22.13                     | 21.09 | 20.13 |            |       |       |
|                              |                       | 836.5              | 22.15                     | 21.16 | 20.13 |            |       |       |
|                              |                       | 829.0              | 22.14                     | 21.14 | 20.11 |            |       |       |
|                              | 25RB_0                | 844.0              | 22.14                     | 21.17 | 20.15 |            |       |       |
|                              |                       | 836.5              | 22.16                     | 21.19 | 20.19 |            |       |       |
|                              |                       | 829.0              | 22.15                     | 21.14 | 20.16 |            |       |       |
|                              | 50RB_0                | 844.0              | 22.11                     | 21.11 | 20.10 |            |       |       |
|                              |                       | 836.5              | 22.19                     | 21.18 | 20.21 |            |       |       |
|                              |                       | 829.0              | 22.17                     | 21.17 | 20.21 |            |       |       |

| Power Level A1/B1/C1 |                       |                    |                           |       |       |            |       |       |
|----------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 12          |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width       | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                      |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz              | 1RB_5                 | 715.3              | 23.74                     | 22.91 | 21.92 | 25.0       | 24.0  | 23.0  |
|                      |                       | 707.5              | 23.86                     | 23.00 | 22.00 |            |       |       |
|                      |                       | 699.7              | 23.84                     | 23.04 | 21.84 |            |       |       |
|                      | 1RB_3                 | 715.3              | 23.79                     | 23.03 | 21.89 |            |       |       |
|                      |                       | 707.5              | 23.86                     | 23.02 | 22.02 |            |       |       |
|                      |                       | 699.7              | 23.85                     | 23.04 | 21.86 |            |       |       |
|                      | 1RB_0                 | 715.3              | 23.77                     | 22.97 | 21.92 |            |       |       |
|                      |                       | 707.5              | 23.85                     | 23.01 | 22.06 |            |       |       |
|                      |                       | 699.7              | 23.88                     | 23.06 | 21.87 |            |       |       |
|                      | 3RB_3                 | 715.3              | 23.84                     | 22.80 | 21.82 |            |       |       |
|                      |                       | 707.5              | 23.85                     | 22.83 | 21.83 |            |       |       |
|                      |                       | 699.7              | 23.86                     | 22.86 | 21.83 |            |       |       |
|                      | 3RB_1                 | 715.3              | 23.82                     | 22.84 | 21.84 |            |       |       |
|                      |                       | 707.5              | 23.87                     | 22.84 | 21.84 |            |       |       |
|                      |                       | 699.7              | 23.88                     | 22.90 | 21.89 |            |       |       |
|                      | 3RB_0                 | 715.3              | 23.75                     | 22.78 | 21.81 |            |       |       |
|                      |                       | 707.5              | 23.85                     | 22.86 | 21.85 |            |       |       |
|                      |                       | 699.7              | 23.86                     | 22.86 | 21.92 |            |       |       |
|                      | 6RB_0                 | 715.3              | 22.79                     | 21.85 | 20.72 | 24.0       | 23.0  | 22.0  |
|                      |                       | 707.5              | 22.80                     | 21.84 | 20.71 |            |       |       |
|                      |                       | 699.7              | 22.84                     | 21.84 | 20.80 |            |       |       |



| Power Level A1/B1/C1 |                       |                    |                           |       |       |            |       |       |
|----------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 12          |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width       | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                      |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                | 1RB_14                | 714.5              | 23.72                     | 22.93 | 21.98 | 25.0       | 24.0  | 23.0  |
|                      |                       | 707.5              | 23.83                     | 23.01 | 21.97 |            |       |       |
|                      |                       | 700.5              | 23.79                     | 22.99 | 21.91 |            |       |       |
|                      | 1RB_7                 | 714.5              | 23.79                     | 22.98 | 21.98 |            |       |       |
|                      |                       | 707.5              | 23.82                     | 23.07 | 22.02 |            |       |       |
|                      |                       | 700.5              | 23.88                     | 23.03 | 21.99 |            |       |       |
|                      | 1RB_0                 | 714.5              | 23.75                     | 22.90 | 21.96 |            |       |       |
|                      |                       | 707.5              | 23.72                     | 22.99 | 21.86 |            |       |       |
|                      |                       | 700.5              | 23.83                     | 22.97 | 21.93 |            |       |       |
|                      | 8RB_7                 | 714.5              | 22.77                     | 21.82 | 20.73 | 24.0       | 23.0  | 22.0  |
|                      |                       | 707.5              | 22.79                     | 21.87 | 20.80 |            |       |       |
|                      |                       | 700.5              | 22.82                     | 21.91 | 20.80 |            |       |       |
|                      | 8RB_4                 | 714.5              | 22.73                     | 21.77 | 20.73 |            |       |       |
|                      |                       | 707.5              | 22.84                     | 21.90 | 20.86 |            |       |       |
|                      |                       | 700.5              | 22.81                     | 21.89 | 20.81 |            |       |       |
|                      | 8RB_0                 | 714.5              | 22.82                     | 21.84 | 20.77 |            |       |       |
|                      |                       | 707.5              | 22.78                     | 21.85 | 20.80 |            |       |       |
|                      |                       | 700.5              | 22.75                     | 21.87 | 20.75 |            |       |       |
|                      | 15RB_0                | 714.5              | 22.78                     | 21.81 | 20.74 |            |       |       |
|                      |                       | 707.5              | 22.79                     | 21.86 | 20.79 |            |       |       |
|                      |                       | 700.5              | 22.79                     | 21.83 | 20.77 |            |       |       |

| Power Level A1/B1/C1 |                       |                    |                           |       |       |            |       |       |
|----------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 12          |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width       | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                      |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                | 1RB_24                | 713.5              | 23.84                     | 22.94 | 21.90 | 25.0       | 24.0  | 23.0  |
|                      |                       | 707.5              | 23.88                     | 22.98 | 21.83 |            |       |       |
|                      |                       | 701.5              | 23.97                     | 23.05 | 22.03 |            |       |       |
|                      | 1RB_12                | 713.5              | 23.86                     | 22.97 | 21.95 |            |       |       |
|                      |                       | 707.5              | 23.94                     | 23.01 | 21.91 |            |       |       |
|                      |                       | 701.5              | 23.86                     | 23.04 | 21.95 |            |       |       |
|                      | 1RB_0                 | 713.5              | 23.80                     | 22.92 | 21.88 |            |       |       |
|                      |                       | 707.5              | 23.87                     | 22.97 | 21.93 |            |       |       |
|                      |                       | 701.5              | 23.85                     | 22.93 | 21.88 |            |       |       |
|                      | 12RB_13               | 713.5              | 22.70                     | 21.67 | 20.65 | 24.0       | 23.0  | 22.0  |
|                      |                       | 707.5              | 22.86                     | 21.87 | 20.83 |            |       |       |
|                      |                       | 701.5              | 22.82                     | 21.82 | 20.85 |            |       |       |
|                      | 12RB_6                | 713.5              | 22.82                     | 21.77 | 20.75 |            |       |       |
|                      |                       | 707.5              | 22.85                     | 21.82 | 20.84 |            |       |       |
|                      |                       | 701.5              | 22.82                     | 21.79 | 20.83 |            |       |       |
|                      | 12RB_0                | 713.5              | 22.84                     | 21.81 | 20.80 |            |       |       |
|                      |                       | 707.5              | 22.83                     | 21.84 | 20.80 |            |       |       |
|                      |                       | 701.5              | 22.74                     | 21.73 | 20.76 |            |       |       |
|                      | 25RB_0                | 713.5              | 22.75                     | 21.74 | 20.72 |            |       |       |
|                      |                       | 707.5              | 22.87                     | 21.85 | 20.82 |            |       |       |
|                      |                       | 701.5              | 22.79                     | 21.79 | 20.73 |            |       |       |

| Power Level A1/B1/C1 |                       |                    |                           |       |       |            |       |       |
|----------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 12          |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width       | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                      |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz               | 1RB_49                | 711.0              | 23.88                     | 23.02 | 21.96 | 25.0       | 24.0  | 23.0  |
|                      |                       | 707.5              | 23.95                     | 23.02 | 21.99 |            |       |       |
|                      |                       | 704.0              | 23.97                     | 23.10 | 21.99 |            |       |       |
|                      | 1RB_24                | 711.0              | 23.92                     | 23.06 | 22.02 |            |       |       |
|                      |                       | 707.5              | 23.98                     | 23.02 | 22.07 |            |       |       |
|                      |                       | 704.0              | 23.94                     | 23.11 | 22.02 |            |       |       |
|                      | 1RB_0                 | 711.0              | 23.80                     | 23.00 | 21.90 |            |       |       |
|                      |                       | 707.5              | 23.87                     | 23.00 | 21.95 |            |       |       |
|                      |                       | 704.0              | 23.84                     | 23.02 | 21.88 |            |       |       |
|                      | 25RB_25               | 711.0              | 22.75                     | 21.77 | 20.73 | 24.0       | 23.0  | 22.0  |
|                      |                       | 707.5              | 22.93                     | 21.89 | 20.89 |            |       |       |
|                      |                       | 704.0              | 22.78                     | 21.81 | 20.77 |            |       |       |
|                      | 25RB_12               | 711.0              | 22.83                     | 21.83 | 20.80 |            |       |       |
|                      |                       | 707.5              | 22.85                     | 21.80 | 20.83 |            |       |       |
|                      |                       | 704.0              | 22.87                     | 21.84 | 20.83 |            |       |       |
|                      | 25RB_0                | 711.0              | 22.78                     | 21.78 | 20.74 |            |       |       |
|                      |                       | 707.5              | 22.89                     | 21.89 | 20.89 |            |       |       |
|                      |                       | 704.0              | 22.78                     | 21.77 | 20.73 |            |       |       |
|                      | 50RB_0                | 711.0              | 22.77                     | 21.76 | 20.74 |            |       |       |
|                      |                       | 707.5              | 22.92                     | 21.92 | 20.89 |            |       |       |
|                      |                       | 704.0              | 22.79                     | 21.81 | 20.77 |            |       |       |

| Ant.5 - Power Level A1/B1/C1/A2/B2/C2 |                       |                    |                           |       |       |            |       |       |            |       |       |      |      |      |
|---------------------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|------------|-------|-------|------|------|------|
| LTE Band 13                           |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |            |       |       |      |      |      |
| Band<br>-width                        | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |            |       |       |      |      |      |
|                                       |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |            |       |       |      |      |      |
| 5 MHz                                 | 1RB_24                | 784.5              | 23.87                     | 22.97 | 21.89 | 25.0       | 24.0  | 23.0  |            |       |       |      |      |      |
|                                       |                       | 782.0              | 23.84                     | 22.98 | 21.90 |            |       |       |            |       |       |      |      |      |
|                                       |                       | 779.5              | 23.89                     | 22.95 | 21.94 |            |       |       |            |       |       |      |      |      |
|                                       | 1RB_12                | 784.5              | 23.87                     | 23.02 | 21.96 |            |       |       | 24.0       | 23.0  | 22.0  |      |      |      |
|                                       |                       | 782.0              | 23.90                     | 23.05 | 21.95 |            |       |       |            |       |       |      |      |      |
|                                       |                       | 779.5              | 23.91                     | 23.00 | 22.06 |            |       |       |            |       |       |      |      |      |
|                                       | 1RB_0                 | 784.5              | 23.84                     | 22.99 | 21.88 |            |       |       |            |       |       | 24.0 | 23.0 | 22.0 |
|                                       |                       | 782.0              | 23.85                     | 22.92 | 21.87 |            |       |       |            |       |       |      |      |      |
|                                       |                       | 779.5              | 23.85                     | 22.98 | 21.89 |            |       |       |            |       |       |      |      |      |
|                                       | 12RB_13               | 784.5              | 22.75                     | 21.72 | 20.74 | 24.0       | 23.0  | 22.0  |            |       |       |      |      |      |
|                                       |                       | 782.0              | 22.77                     | 21.73 | 20.76 |            |       |       |            |       |       |      |      |      |
|                                       |                       | 779.5              | 22.85                     | 21.82 | 20.83 |            |       |       |            |       |       |      |      |      |
|                                       | 12RB_6                | 784.5              | 22.79                     | 21.78 | 20.79 |            |       |       | 24.0       | 23.0  | 22.0  |      |      |      |
|                                       |                       | 782.0              | 22.76                     | 21.76 | 20.77 |            |       |       |            |       |       |      |      |      |
|                                       |                       | 779.5              | 22.74                     | 21.75 | 20.76 |            |       |       |            |       |       |      |      |      |
|                                       | 12RB_0                | 784.5              | 22.76                     | 21.74 | 20.79 |            |       |       |            |       |       | 24.0 | 23.0 | 22.0 |
|                                       |                       | 782.0              | 22.74                     | 21.73 | 20.70 |            |       |       |            |       |       |      |      |      |
|                                       |                       | 779.5              | 22.67                     | 21.66 | 20.65 |            |       |       |            |       |       |      |      |      |
|                                       | 25RB_0                | 784.5              | 22.77                     | 21.77 | 20.74 | 24.0       | 23.0  | 22.0  |            |       |       |      |      |      |
|                                       |                       | 782.0              | 22.73                     | 21.75 | 20.69 |            |       |       |            |       |       |      |      |      |
|                                       |                       | 779.5              | 22.74                     | 21.78 | 20.70 |            |       |       |            |       |       |      |      |      |
| Ant.5 - Power Level A1/B1/C1/A2/B2/C2 |                       |                    |                           |       |       |            |       |       |            |       |       |      |      |      |
| LTE Band 13                           |                       |                    | Actual output Power (dBm) |       |       |            |       |       | Tune up    |       |       |      |      |      |
| Band<br>-width                        | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       |            |       |       | Modulation |       |       |      |      |      |
|                                       |                       |                    | QPSK                      | 16QAM | 64QAM |            |       |       | QPSK       | 16QAM | 64QAM |      |      |      |
| 10 MHz                                | 1RB_49                | 782.0              | 23.85                     | 23.05 | 21.94 |            |       |       | 25.0       | 24.0  | 23.0  |      |      |      |
|                                       | 1RB_24                | 782.0              | 23.89                     | 23.12 | 21.97 |            |       |       |            |       |       |      |      |      |
|                                       | 1RB_0                 | 782.0              | 23.88                     | 23.01 | 21.94 |            |       |       |            |       |       |      |      |      |
|                                       | 25RB_25               | 782.0              | 22.81                     | 21.83 | 20.81 | 24.0       | 23.0  | 22.0  |            |       |       |      |      |      |
|                                       | 25RB_12               | 782.0              | 22.78                     | 21.78 | 20.74 |            |       |       |            |       |       |      |      |      |
|                                       | 25RB_0                | 782.0              | 22.64                     | 21.65 | 20.61 |            |       |       |            |       |       |      |      |      |
|                                       | 50RB_0                | 782.0              | 22.75                     | 21.74 | 20.70 |            |       |       |            |       |       |      |      |      |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |            |       |       |      |      |      |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|------------|-------|-------|------|------|------|
| LTE Band 13            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |            |       |       |      |      |      |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |            |       |       |      |      |      |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |            |       |       |      |      |      |
| 5 MHz                  | 1RB_24                | 784.5              | 18.23                     | 18.29 | 18.19 | 19.5       | 19.5  | 19.5  |            |       |       |      |      |      |
|                        |                       | 782.0              | 18.25                     | 18.32 | 18.25 |            |       |       |            |       |       |      |      |      |
|                        |                       | 779.5              | 18.28                     | 18.30 | 18.20 |            |       |       |            |       |       |      |      |      |
|                        | 1RB_12                | 784.5              | 18.18                     | 18.23 | 18.25 |            |       |       | 19.5       | 19.5  | 19.5  |      |      |      |
|                        |                       | 782.0              | 18.19                     | 18.23 | 18.25 |            |       |       |            |       |       |      |      |      |
|                        |                       | 779.5              | 18.14                     | 18.13 | 18.13 |            |       |       |            |       |       |      |      |      |
|                        | 1RB_0                 | 784.5              | 18.17                     | 18.21 | 18.18 |            |       |       |            |       |       | 19.5 | 19.5 | 19.5 |
|                        |                       | 782.0              | 18.25                     | 18.31 | 18.18 |            |       |       |            |       |       |      |      |      |
|                        |                       | 779.5              | 18.24                     | 18.37 | 18.30 |            |       |       |            |       |       |      |      |      |
|                        | 12RB_13               | 784.5              | 18.24                     | 18.30 | 18.22 | 19.5       | 19.5  | 19.5  |            |       |       |      |      |      |
|                        |                       | 782.0              | 18.20                     | 18.23 | 18.21 |            |       |       |            |       |       |      |      |      |
|                        |                       | 779.5              | 18.20                     | 18.23 | 18.25 |            |       |       |            |       |       |      |      |      |
|                        | 12RB_6                | 784.5              | 18.16                     | 18.17 | 18.14 |            |       |       | 19.5       | 19.5  | 19.5  |      |      |      |
|                        |                       | 782.0              | 18.20                     | 18.22 | 18.20 |            |       |       |            |       |       |      |      |      |
|                        |                       | 779.5              | 18.26                     | 18.28 | 18.21 |            |       |       |            |       |       |      |      |      |
|                        | 12RB_0                | 784.5              | 18.28                     | 18.38 | 18.32 |            |       |       |            |       |       | 19.5 | 19.5 | 19.5 |
|                        |                       | 782.0              | 18.23                     | 18.33 | 18.25 |            |       |       |            |       |       |      |      |      |
|                        |                       | 779.5              | 18.18                     | 18.19 | 18.20 |            |       |       |            |       |       |      |      |      |
|                        | 25RB_0                | 784.5              | 18.19                     | 18.27 | 18.25 | 19.5       | 19.5  | 19.5  |            |       |       |      |      |      |
|                        |                       | 782.0              | 18.14                     | 18.20 | 18.14 |            |       |       |            |       |       |      |      |      |
|                        |                       | 779.5              | 18.18                     | 18.21 | 18.23 |            |       |       |            |       |       |      |      |      |
| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |            |       |       |      |      |      |
| LTE Band 13            |                       |                    | Actual output Power (dBm) |       |       |            |       |       | Tune up    |       |       |      |      |      |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       |            |       |       | Modulation |       |       |      |      |      |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM |            |       |       | QPSK       | 16QAM | 64QAM |      |      |      |
| 10 MHz                 | 1RB_49                | 782.0              | 18.24                     | 18.27 | 18.21 |            |       |       | 19.5       | 19.5  | 19.5  |      |      |      |
|                        | 1RB_24                | 782.0              | 18.28                     | 18.34 | 18.29 |            |       |       |            |       |       |      |      |      |
|                        | 1RB_0                 | 782.0              | 18.26                     | 18.31 | 18.24 |            |       |       |            |       |       |      |      |      |
|                        | 25RB_25               | 782.0              | 18.20                     | 18.21 | 18.22 | 19.5       | 19.5  | 19.5  |            |       |       |      |      |      |
|                        | 25RB_12               | 782.0              | 18.16                     | 18.24 | 18.24 |            |       |       |            |       |       |      |      |      |
|                        | 25RB_0                | 782.0              | 18.13                     | 18.17 | 18.12 |            |       |       |            |       |       |      |      |      |
|                        | 50RB_0                | 782.0              | 18.17                     | 18.23 | 18.19 |            |       |       |            |       |       |      |      |      |

| Ant.1 - Power Level B2/C2 |                       |                    |                           |       |       |            |       |       |            |       |       |      |      |      |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|------------|-------|-------|------|------|------|
| LTE Band 13               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |            |       |       |      |      |      |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |            |       |       |      |      |      |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |            |       |       |      |      |      |
| 5 MHz                     | 1RB_24                | 784.5              | 23.19                     | 22.15 | 21.15 | 24.5       | 23.5  | 22.5  |            |       |       |      |      |      |
|                           |                       | 782.0              | 23.25                     | 22.37 | 21.25 |            |       |       |            |       |       |      |      |      |
|                           |                       | 779.5              | 23.27                     | 22.21 | 21.17 |            |       |       |            |       |       |      |      |      |
|                           | 1RB_12                | 784.5              | 23.23                     | 22.13 | 21.21 |            |       |       | 23.5       | 22.5  | 21.5  |      |      |      |
|                           |                       | 782.0              | 23.25                     | 22.29 | 21.24 |            |       |       |            |       |       |      |      |      |
|                           |                       | 779.5              | 23.23                     | 22.17 | 21.13 |            |       |       |            |       |       |      |      |      |
|                           | 1RB_0                 | 784.5              | 23.24                     | 22.15 | 21.20 |            |       |       |            |       |       | 23.5 | 22.5 | 21.5 |
|                           |                       | 782.0              | 23.27                     | 22.29 | 21.17 |            |       |       |            |       |       |      |      |      |
|                           |                       | 779.5              | 23.28                     | 22.20 | 21.11 |            |       |       |            |       |       |      |      |      |
|                           | 12RB_13               | 784.5              | 22.17                     | 21.14 | 20.15 | 23.5       | 22.5  | 21.5  |            |       |       |      |      |      |
|                           |                       | 782.0              | 22.13                     | 21.16 | 20.12 |            |       |       |            |       |       |      |      |      |
|                           |                       | 779.5              | 22.16                     | 21.08 | 20.15 |            |       |       |            |       |       |      |      |      |
|                           | 12RB_6                | 784.5              | 22.19                     | 21.10 | 20.17 |            |       |       | 23.5       | 22.5  | 21.5  |      |      |      |
|                           |                       | 782.0              | 22.18                     | 21.21 | 20.21 |            |       |       |            |       |       |      |      |      |
|                           |                       | 779.5              | 22.16                     | 21.18 | 20.19 |            |       |       |            |       |       |      |      |      |
|                           | 12RB_0                | 784.5              | 22.10                     | 21.07 | 20.13 |            |       |       |            |       |       | 23.5 | 22.5 | 21.5 |
|                           |                       | 782.0              | 22.19                     | 21.05 | 20.20 |            |       |       |            |       |       |      |      |      |
|                           |                       | 779.5              | 22.18                     | 21.18 | 20.18 |            |       |       |            |       |       |      |      |      |
|                           | 25RB_0                | 784.5              | 22.16                     | 21.14 | 20.14 | 23.5       | 22.5  | 21.5  |            |       |       |      |      |      |
|                           |                       | 782.0              | 22.14                     | 21.05 | 20.10 |            |       |       |            |       |       |      |      |      |
|                           |                       | 779.5              | 22.15                     | 21.06 | 20.21 |            |       |       |            |       |       |      |      |      |
| Ant.1 - Power Level B2/C2 |                       |                    |                           |       |       |            |       |       |            |       |       |      |      |      |
| LTE Band 13               |                       |                    | Actual output Power (dBm) |       |       |            |       |       | Tune up    |       |       |      |      |      |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       |            |       |       | Modulation |       |       |      |      |      |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM |            |       |       | QPSK       | 16QAM | 64QAM |      |      |      |
| 10 MHz                    | 1RB_49                | 782.0              | 23.22                     | 22.15 | 21.17 |            |       |       | 24.5       | 23.5  | 22.5  |      |      |      |
|                           | 1RB_24                | 782.0              | 23.26                     | 22.33 | 21.21 |            |       |       |            |       |       |      |      |      |
|                           | 1RB_0                 | 782.0              | 23.24                     | 22.19 | 21.15 |            |       |       |            |       |       |      |      |      |
|                           | 25RB_25               | 782.0              | 22.20                     | 21.17 | 20.18 | 23.5       | 22.5  | 21.5  |            |       |       |      |      |      |
|                           | 25RB_12               | 782.0              | 22.16                     | 21.14 | 20.15 |            |       |       |            |       |       |      |      |      |
|                           | 25RB_0                | 782.0              | 22.13                     | 21.06 | 20.13 |            |       |       |            |       |       |      |      |      |
|                           | 50RB_0                | 782.0              | 22.17                     | 21.07 | 20.17 |            |       |       |            |       |       |      |      |      |

| Ant.5 - Power Level A1/A2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                   | 1RB_5                 | 1779.3             | 22.91                     | 22.15 | 21.04 | 24.5       | 23.5  | 22.5  |
|                           |                       | 1745.0             | 22.91                     | 22.20 | 20.89 |            |       |       |
|                           |                       | 1710.7             | 22.95                     | 22.16 | 20.91 |            |       |       |
|                           | 1RB_3                 | 1779.3             | 22.94                     | 22.18 | 20.98 |            |       |       |
|                           |                       | 1745.0             | 22.92                     | 22.19 | 20.97 |            |       |       |
|                           |                       | 1710.7             | 22.95                     | 22.17 | 20.96 |            |       |       |
|                           | 1RB_0                 | 1779.3             | 22.93                     | 22.14 | 20.98 |            |       |       |
|                           |                       | 1745.0             | 22.93                     | 22.21 | 20.96 |            |       |       |
|                           |                       | 1710.7             | 22.98                     | 22.16 | 21.01 |            |       |       |
|                           | 3RB_3                 | 1779.3             | 22.95                     | 21.90 | 20.96 |            |       |       |
|                           |                       | 1745.0             | 22.96                     | 21.96 | 21.00 |            |       |       |
|                           |                       | 1710.7             | 22.97                     | 21.99 | 20.93 |            |       |       |
|                           | 3RB_1                 | 1779.3             | 22.95                     | 21.93 | 20.95 |            |       |       |
|                           |                       | 1745.0             | 23.00                     | 21.98 | 21.05 |            |       |       |
|                           |                       | 1710.7             | 23.00                     | 22.04 | 20.95 |            |       |       |
|                           | 3RB_0                 | 1779.3             | 22.95                     | 21.93 | 20.93 |            |       |       |
|                           |                       | 1745.0             | 22.99                     | 22.02 | 20.99 |            |       |       |
|                           |                       | 1710.7             | 22.99                     | 21.96 | 20.87 |            |       |       |
|                           | 6RB_0                 | 1779.3             | 21.95                     | 21.00 | 19.95 | 23.5       | 22.5  | 21.5  |
|                           |                       | 1745.0             | 21.98                     | 21.03 | 19.99 |            |       |       |
|                           |                       | 1710.7             | 21.94                     | 21.04 | 20.03 |            |       |       |

| Ant.5 - Power Level A1/A2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                     | 1RB_14                | 1778.5             | 22.92                     | 22.04 | 21.01 | 24.5       | 23.5  | 22.5  |
|                           |                       | 1745.0             | 22.96                     | 22.10 | 21.03 |            |       |       |
|                           |                       | 1711.5             | 22.97                     | 22.11 | 21.09 |            |       |       |
|                           | 1RB_7                 | 1778.5             | 22.92                     | 22.17 | 21.08 |            |       |       |
|                           |                       | 1745.0             | 22.96                     | 22.15 | 21.10 |            |       |       |
|                           |                       | 1711.5             | 22.98                     | 22.13 | 21.16 |            |       |       |
|                           | 1RB_0                 | 1778.5             | 22.95                     | 22.15 | 20.98 |            |       |       |
|                           |                       | 1745.0             | 22.98                     | 22.10 | 21.01 |            |       |       |
|                           |                       | 1711.5             | 22.95                     | 22.08 | 21.05 |            |       |       |
|                           | 8RB_7                 | 1778.5             | 21.89                     | 20.98 | 20.01 | 23.5       | 22.5  | 21.5  |
|                           |                       | 1745.0             | 21.90                     | 21.00 | 20.01 |            |       |       |
|                           |                       | 1711.5             | 21.95                     | 21.02 | 20.07 |            |       |       |
|                           | 8RB_4                 | 1778.5             | 21.91                     | 20.99 | 20.03 |            |       |       |
|                           |                       | 1745.0             | 21.93                     | 21.02 | 20.02 |            |       |       |
|                           |                       | 1711.5             | 21.93                     | 21.02 | 20.03 |            |       |       |
|                           | 8RB_0                 | 1778.5             | 21.95                     | 21.04 | 20.06 |            |       |       |
|                           |                       | 1745.0             | 21.97                     | 21.02 | 20.10 |            |       |       |
|                           |                       | 1711.5             | 21.92                     | 21.00 | 20.04 |            |       |       |
|                           | 15RB_0                | 1778.5             | 21.93                     | 20.94 | 20.01 |            |       |       |
|                           |                       | 1745.0             | 21.93                     | 20.93 | 20.04 |            |       |       |
|                           |                       | 1711.5             | 21.95                     | 20.96 | 20.08 |            |       |       |



| Ant.5 - Power Level A1/A2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                     | 1RB_24                | 1777.5             | 23.01                     | 22.13 | 21.01 | 24.5       | 23.5  | 22.5  |
|                           |                       | 1745.0             | 23.01                     | 22.14 | 20.99 |            |       |       |
|                           |                       | 1712.5             | 23.02                     | 22.20 | 21.09 |            |       |       |
|                           | 1RB_12                | 1777.5             | 23.07                     | 22.23 | 20.98 |            |       |       |
|                           |                       | 1745.0             | 23.08                     | 22.23 | 21.13 |            |       |       |
|                           |                       | 1712.5             | 23.04                     | 22.23 | 21.17 |            |       |       |
|                           | 1RB_0                 | 1777.5             | 22.99                     | 22.20 | 20.96 |            |       |       |
|                           |                       | 1745.0             | 23.04                     | 22.19 | 21.03 |            |       |       |
|                           |                       | 1712.5             | 23.05                     | 22.24 | 21.10 |            |       |       |
|                           | 12RB_13               | 1777.5             | 21.88                     | 20.87 | 20.01 | 23.5       | 22.5  | 21.5  |
|                           |                       | 1745.0             | 21.91                     | 20.88 | 20.01 |            |       |       |
|                           |                       | 1712.5             | 21.96                     | 20.92 | 20.10 |            |       |       |
|                           | 12RB_6                | 1777.5             | 21.98                     | 20.94 | 20.10 |            |       |       |
|                           |                       | 1745.0             | 21.96                     | 20.99 | 20.12 |            |       |       |
|                           |                       | 1712.5             | 21.99                     | 20.97 | 20.13 |            |       |       |
|                           | 12RB_0                | 1777.5             | 21.99                     | 20.97 | 20.14 |            |       |       |
|                           |                       | 1745.0             | 22.01                     | 20.98 | 20.15 |            |       |       |
|                           |                       | 1712.5             | 21.95                     | 20.90 | 20.10 |            |       |       |
|                           | 25RB_0                | 1777.5             | 21.94                     | 20.92 | 20.06 |            |       |       |
|                           |                       | 1745.0             | 21.96                     | 20.95 | 20.03 |            |       |       |
|                           |                       | 1712.5             | 21.99                     | 21.01 | 20.05 |            |       |       |

| Ant.5 - Power Level A1/A2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                    | 1RB_49                | 1775.0             | 22.94                     | 22.11 | 20.98 | 24.5       | 23.5  | 22.5  |
|                           |                       | 1745.0             | 22.96                     | 22.13 | 21.00 |            |       |       |
|                           |                       | 1715.0             | 23.00                     | 22.15 | 21.05 |            |       |       |
|                           | 1RB_24                | 1775.0             | 23.04                     | 22.24 | 21.07 |            |       |       |
|                           |                       | 1745.0             | 23.03                     | 22.26 | 21.08 |            |       |       |
|                           |                       | 1715.0             | 23.07                     | 22.26 | 21.05 |            |       |       |
|                           | 1RB_0                 | 1775.0             | 23.04                     | 22.26 | 21.06 |            |       |       |
|                           |                       | 1745.0             | 23.05                     | 22.20 | 21.05 |            |       |       |
|                           |                       | 1715.0             | 23.04                     | 22.25 | 21.03 |            |       |       |
|                           | 25RB_25               | 1775.0             | 21.95                     | 20.95 | 20.01 | 23.5       | 22.5  | 21.5  |
|                           |                       | 1745.0             | 22.01                     | 21.00 | 20.05 |            |       |       |
|                           |                       | 1715.0             | 21.98                     | 20.99 | 20.08 |            |       |       |
|                           | 25RB_12               | 1775.0             | 21.95                     | 20.98 | 20.03 |            |       |       |
|                           |                       | 1745.0             | 21.95                     | 20.98 | 20.04 |            |       |       |
|                           |                       | 1715.0             | 21.97                     | 20.99 | 20.08 |            |       |       |
|                           | 25RB_0                | 1775.0             | 22.02                     | 21.05 | 20.10 |            |       |       |
|                           |                       | 1745.0             | 21.98                     | 20.97 | 20.02 |            |       |       |
|                           |                       | 1715.0             | 21.94                     | 20.94 | 20.02 |            |       |       |
|                           | 50RB_0                | 1775.0             | 21.99                     | 20.97 | 20.03 |            |       |       |
|                           |                       | 1745.0             | 22.01                     | 21.00 | 20.07 |            |       |       |
|                           |                       | 1715.0             | 21.96                     | 20.94 | 20.07 |            |       |       |

| Ant.5 - Power Level A1/A2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                    | 1RB_74                | 1772.5             | 22.87                     | 22.04 | 20.99 | 24.5       | 23.5  | 22.5  |
|                           |                       | 1745.0             | 22.83                     | 22.13 | 20.98 |            |       |       |
|                           |                       | 1717.5             | 22.83                     | 22.14 | 20.94 |            |       |       |
|                           | 1RB_37                | 1772.5             | 22.91                     | 22.16 | 21.12 |            |       |       |
|                           |                       | 1745.0             | 22.94                     | 22.22 | 21.08 |            |       |       |
|                           |                       | 1717.5             | 22.92                     | 22.23 | 21.02 |            |       |       |
|                           | 1RB_0                 | 1772.5             | 22.91                     | 22.11 | 21.05 |            |       |       |
|                           |                       | 1745.0             | 22.90                     | 22.21 | 21.08 |            |       |       |
|                           |                       | 1717.5             | 22.89                     | 22.24 | 21.02 |            |       |       |
|                           | 36RB_38               | 1772.5             | 21.93                     | 20.87 | 20.03 | 23.5       | 22.5  | 21.5  |
|                           |                       | 1745.0             | 21.90                     | 20.85 | 19.97 |            |       |       |
|                           |                       | 1717.5             | 21.92                     | 20.92 | 20.07 |            |       |       |
|                           | 36RB_19               | 1772.5             | 21.98                     | 20.93 | 20.04 |            |       |       |
|                           |                       | 1745.0             | 21.93                     | 20.90 | 20.04 |            |       |       |
|                           |                       | 1717.5             | 21.95                     | 20.96 | 20.09 |            |       |       |
|                           | 36RB_0                | 1772.5             | 21.97                     | 20.96 | 20.08 |            |       |       |
|                           |                       | 1745.0             | 21.87                     | 20.93 | 20.06 |            |       |       |
|                           |                       | 1717.5             | 21.91                     | 20.90 | 20.03 |            |       |       |
|                           | 75RB_0                | 1772.5             | 21.99                     | 20.94 | 20.04 |            |       |       |
|                           |                       | 1745.0             | 21.94                     | 20.91 | 20.01 |            |       |       |
|                           |                       | 1717.5             | 21.97                     | 20.92 | 20.00 |            |       |       |

| Ant.5 - Power Level A1/A2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                    | 1RB_99                | 1770.0             | 22.81                     | 21.96 | 20.73 | 24.5       | 23.5  | 22.5  |
|                           |                       | 1745.0             | 22.79                     | 21.97 | 20.75 |            |       |       |
|                           |                       | 1720.0             | 22.79                     | 21.96 | 20.91 |            |       |       |
|                           | 1RB_50                | 1770.0             | 22.95                     | 22.14 | 21.02 |            |       |       |
|                           |                       | 1745.0             | 22.92                     | 22.15 | 20.95 |            |       |       |
|                           |                       | 1720.0             | 22.93                     | 22.03 | 21.00 |            |       |       |
|                           | 1RB_0                 | 1770.0             | 22.88                     | 22.04 | 20.80 |            |       |       |
|                           |                       | 1745.0             | 22.85                     | 22.08 | 20.91 |            |       |       |
|                           |                       | 1720.0             | 22.87                     | 22.03 | 21.00 |            |       |       |
|                           | 50RB_50               | 1770.0             | 21.94                     | 20.94 | 19.99 | 23.5       | 22.5  | 21.5  |
|                           |                       | 1745.0             | 21.92                     | 20.86 | 20.00 |            |       |       |
|                           |                       | 1720.0             | 21.90                     | 20.87 | 19.95 |            |       |       |
|                           | 50RB_25               | 1770.0             | 22.00                     | 20.96 | 20.09 |            |       |       |
|                           |                       | 1745.0             | 21.95                     | 20.97 | 20.05 |            |       |       |
|                           |                       | 1720.0             | 21.96                     | 20.90 | 20.05 |            |       |       |
|                           | 50RB_0                | 1770.0             | 22.07                     | 21.03 | 20.16 |            |       |       |
|                           |                       | 1745.0             | 21.97                     | 20.95 | 20.08 |            |       |       |
|                           |                       | 1720.0             | 21.97                     | 20.88 | 20.01 |            |       |       |
|                           | 100RB_0               | 1770.0             | 21.99                     | 20.98 | 20.07 |            |       |       |
|                           |                       | 1745.0             | 21.92                     | 20.89 | 19.98 |            |       |       |
|                           |                       | 1720.0             | 21.92                     | 20.90 | 19.95 |            |       |       |

| Ant.5 - Power Level B1/B2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                   | 1RB_5                 | 1779.3             | 18.17                     | 17.47 | 16.40 | 19.5       | 18.5  | 17.5  |
|                           |                       | 1745.0             | 18.18                     | 17.49 | 16.34 |            |       |       |
|                           |                       | 1710.7             | 18.16                     | 17.48 | 16.28 |            |       |       |
|                           | 1RB_3                 | 1779.3             | 18.21                     | 17.52 | 16.40 |            |       |       |
|                           |                       | 1745.0             | 18.17                     | 17.59 | 16.33 |            |       |       |
|                           |                       | 1710.7             | 18.22                     | 17.46 | 16.31 |            |       |       |
|                           | 1RB_0                 | 1779.3             | 18.19                     | 17.48 | 16.37 |            |       |       |
|                           |                       | 1745.0             | 18.19                     | 17.56 | 16.33 |            |       |       |
|                           |                       | 1710.7             | 18.14                     | 17.44 | 16.33 |            |       |       |
|                           | 3RB_3                 | 1779.3             | 18.19                     | 17.20 | 16.29 |            |       |       |
|                           |                       | 1745.0             | 18.21                     | 17.16 | 16.21 |            |       |       |
|                           |                       | 1710.7             | 18.24                     | 17.20 | 16.30 |            |       |       |
|                           | 3RB_1                 | 1779.3             | 18.20                     | 17.20 | 16.27 |            |       |       |
|                           |                       | 1745.0             | 18.23                     | 17.21 | 16.24 |            |       |       |
|                           |                       | 1710.7             | 18.21                     | 17.21 | 16.30 |            |       |       |
|                           | 3RB_0                 | 1779.3             | 18.21                     | 17.17 | 16.25 |            |       |       |
|                           |                       | 1745.0             | 18.23                     | 17.18 | 16.26 |            |       |       |
|                           |                       | 1710.7             | 18.20                     | 17.21 | 16.32 |            |       |       |
|                           | 6RB_0                 | 1779.3             | 17.18                     | 16.20 | 15.10 | 18.5       | 17.5  | 16.5  |
|                           |                       | 1745.0             | 17.22                     | 16.22 | 15.15 |            |       |       |
|                           |                       | 1710.7             | 17.19                     | 16.23 | 15.12 |            |       |       |

| Ant.5 - Power Level B1/B2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                     | 1RB_14                | 1778.5             | 18.15                     | 17.51 | 16.34 | 19.5       | 18.5  | 17.5  |
|                           |                       | 1745.0             | 18.16                     | 17.47 | 16.37 |            |       |       |
|                           |                       | 1711.5             | 18.21                     | 17.53 | 16.40 |            |       |       |
|                           | 1RB_7                 | 1778.5             | 18.22                     | 17.61 | 16.38 |            |       |       |
|                           |                       | 1745.0             | 18.22                     | 17.46 | 16.46 |            |       |       |
|                           |                       | 1711.5             | 18.23                     | 17.48 | 16.49 |            |       |       |
|                           | 1RB_0                 | 1778.5             | 18.19                     | 17.51 | 16.31 |            |       |       |
|                           |                       | 1745.0             | 18.19                     | 17.46 | 16.41 |            |       |       |
|                           |                       | 1711.5             | 18.19                     | 17.46 | 16.40 |            |       |       |
|                           | 8RB_7                 | 1778.5             | 17.16                     | 16.20 | 15.18 | 18.5       | 17.5  | 16.5  |
|                           |                       | 1745.0             | 17.11                     | 16.22 | 15.16 |            |       |       |
|                           |                       | 1711.5             | 17.21                     | 16.31 | 15.21 |            |       |       |
|                           | 8RB_4                 | 1778.5             | 17.14                     | 16.19 | 15.18 |            |       |       |
|                           |                       | 1745.0             | 17.15                     | 16.22 | 15.16 |            |       |       |
|                           |                       | 1711.5             | 17.19                     | 16.26 | 15.18 |            |       |       |
|                           | 8RB_0                 | 1778.5             | 17.19                     | 16.22 | 15.19 |            |       |       |
|                           |                       | 1745.0             | 17.19                     | 16.25 | 15.17 |            |       |       |
|                           |                       | 1711.5             | 17.20                     | 16.24 | 15.16 |            |       |       |
|                           | 15RB_0                | 1778.5             | 17.16                     | 16.16 | 15.14 |            |       |       |
|                           |                       | 1745.0             | 17.14                     | 16.20 | 15.19 |            |       |       |
|                           |                       | 1711.5             | 17.19                     | 16.25 | 15.20 |            |       |       |

| Ant.5 - Power Level B1/B2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                     | 1RB_24                | 1777.5             | 18.20                     | 17.47 | 16.26 | 19.5       | 18.5  | 17.5  |
|                           |                       | 1745.0             | 18.22                     | 17.49 | 16.22 |            |       |       |
|                           |                       | 1712.5             | 18.23                     | 17.51 | 16.35 |            |       |       |
|                           | 1RB_12                | 1777.5             | 18.28                     | 17.55 | 16.34 |            |       |       |
|                           |                       | 1745.0             | 18.25                     | 17.57 | 16.32 |            |       |       |
|                           |                       | 1712.5             | 18.27                     | 17.55 | 16.40 |            |       |       |
|                           | 1RB_0                 | 1777.5             | 18.19                     | 17.64 | 16.24 |            |       |       |
|                           |                       | 1745.0             | 18.11                     | 17.49 | 16.27 |            |       |       |
|                           |                       | 1712.5             | 18.22                     | 17.53 | 16.37 |            |       |       |
|                           | 12RB_13               | 1777.5             | 17.13                     | 16.11 | 15.10 | 18.5       | 17.5  | 16.5  |
|                           |                       | 1745.0             | 17.18                     | 16.15 | 15.17 |            |       |       |
|                           |                       | 1712.5             | 17.25                     | 16.19 | 15.24 |            |       |       |
|                           | 12RB_6                | 1777.5             | 17.22                     | 16.19 | 15.18 |            |       |       |
|                           |                       | 1745.0             | 17.22                     | 16.19 | 15.22 |            |       |       |
|                           |                       | 1712.5             | 17.25                     | 16.24 | 15.22 |            |       |       |
|                           | 12RB_0                | 1777.5             | 17.19                     | 16.19 | 15.21 |            |       |       |
|                           |                       | 1745.0             | 17.20                     | 16.20 | 15.22 |            |       |       |
|                           |                       | 1712.5             | 17.21                     | 16.18 | 15.17 |            |       |       |
|                           | 25RB_0                | 1777.5             | 17.19                     | 16.23 | 15.17 |            |       |       |
|                           |                       | 1745.0             | 17.20                     | 16.21 | 15.17 |            |       |       |
|                           |                       | 1712.5             | 17.26                     | 16.22 | 15.23 |            |       |       |

| Ant.5 - Power Level B1/B2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                    | 1RB_49                | 1775.0             | 18.17                     | 17.38 | 16.26 | 19.5       | 18.5  | 17.5  |
|                           |                       | 1745.0             | 18.15                     | 17.46 | 16.37 |            |       |       |
|                           |                       | 1715.0             | 18.18                     | 17.50 | 16.32 |            |       |       |
|                           | 1RB_24                | 1775.0             | 18.21                     | 17.47 | 16.38 |            |       |       |
|                           |                       | 1745.0             | 18.23                     | 17.51 | 16.40 |            |       |       |
|                           |                       | 1715.0             | 18.25                     | 17.62 | 16.36 |            |       |       |
|                           | 1RB_0                 | 1775.0             | 18.26                     | 17.49 | 16.41 |            |       |       |
|                           |                       | 1745.0             | 18.24                     | 17.50 | 16.40 |            |       |       |
|                           |                       | 1715.0             | 18.24                     | 17.53 | 16.34 |            |       |       |
|                           | 25RB_25               | 1775.0             | 17.18                     | 16.18 | 15.20 | 18.5       | 17.5  | 16.5  |
|                           |                       | 1745.0             | 17.24                     | 16.23 | 15.21 |            |       |       |
|                           |                       | 1715.0             | 17.25                     | 16.24 | 15.27 |            |       |       |
|                           | 25RB_12               | 1775.0             | 17.25                     | 16.23 | 15.19 |            |       |       |
|                           |                       | 1745.0             | 17.24                     | 16.22 | 15.21 |            |       |       |
|                           |                       | 1715.0             | 17.22                     | 16.21 | 15.23 |            |       |       |
|                           | 25RB_0                | 1775.0             | 17.23                     | 16.27 | 15.24 |            |       |       |
|                           |                       | 1745.0             | 17.23                     | 16.20 | 15.17 |            |       |       |
|                           |                       | 1715.0             | 17.22                     | 16.18 | 15.21 |            |       |       |
|                           | 50RB_0                | 1775.0             | 17.25                     | 16.21 | 15.19 |            |       |       |
|                           |                       | 1745.0             | 17.29                     | 16.21 | 15.22 |            |       |       |
|                           |                       | 1715.0             | 17.29                     | 16.21 | 15.20 |            |       |       |



| Ant.5 - Power Level B1/B2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                    | 1RB_74                | 1772.5             | 18.10                     | 17.39 | 16.19 | 19.5       | 18.5  | 17.5  |
|                           |                       | 1745.0             | 18.10                     | 17.27 | 16.14 |            |       |       |
|                           |                       | 1717.5             | 18.09                     | 17.26 | 16.26 |            |       |       |
|                           | 1RB_37                | 1772.5             | 18.16                     | 17.46 | 16.25 |            |       |       |
|                           |                       | 1745.0             | 18.19                     | 17.41 | 16.25 |            |       |       |
|                           |                       | 1717.5             | 18.22                     | 17.33 | 16.33 |            |       |       |
|                           | 1RB_0                 | 1772.5             | 18.16                     | 17.46 | 16.26 |            |       |       |
|                           |                       | 1745.0             | 18.14                     | 17.39 | 16.22 |            |       |       |
|                           |                       | 1717.5             | 18.14                     | 17.34 | 16.35 |            |       |       |
|                           | 36RB_38               | 1772.5             | 17.17                     | 16.17 | 15.18 | 18.5       | 17.5  | 16.5  |
|                           |                       | 1745.0             | 17.17                     | 16.16 | 15.19 |            |       |       |
|                           |                       | 1717.5             | 17.17                     | 16.19 | 15.16 |            |       |       |
|                           | 36RB_19               | 1772.5             | 17.22                     | 16.23 | 15.26 |            |       |       |
|                           |                       | 1745.0             | 17.19                     | 16.19 | 15.22 |            |       |       |
|                           |                       | 1717.5             | 17.20                     | 16.16 | 15.19 |            |       |       |
|                           | 36RB_0                | 1772.5             | 17.21                     | 16.21 | 15.27 |            |       |       |
|                           |                       | 1745.0             | 17.17                     | 16.17 | 15.21 |            |       |       |
|                           |                       | 1717.5             | 17.18                     | 16.18 | 15.18 |            |       |       |
|                           | 75RB_0                | 1772.5             | 17.22                     | 16.25 | 15.21 |            |       |       |
|                           |                       | 1745.0             | 17.20                     | 16.17 | 15.15 |            |       |       |
|                           |                       | 1717.5             | 17.19                     | 16.17 | 15.18 |            |       |       |

| Ant.5 - Power Level B1/B2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                    | 1RB_99                | 1770.0             | 17.99                     | 17.42 | 16.32 | 19.5       | 18.5  | 17.5  |
|                           |                       | 1745.0             | 17.98                     | 17.30 | 16.24 |            |       |       |
|                           |                       | 1720.0             | 17.98                     | 17.39 | 16.23 |            |       |       |
|                           | 1RB_50                | 1770.0             | 18.39                     | 17.49 | 16.44 |            |       |       |
|                           |                       | 1745.0             | 18.23                     | 17.47 | 16.33 |            |       |       |
|                           |                       | 1720.0             | 18.22                     | 17.54 | 16.24 |            |       |       |
|                           | 1RB_0                 | 1770.0             | 18.03                     | 17.47 | 16.33 |            |       |       |
|                           |                       | 1745.0             | 18.08                     | 17.43 | 16.28 |            |       |       |
|                           |                       | 1720.0             | 18.04                     | 17.51 | 16.19 |            |       |       |
|                           | 50RB_50               | 1770.0             | 17.10                     | 16.20 | 15.19 | 18.5       | 17.5  | 16.5  |
|                           |                       | 1745.0             | 17.12                     | 16.17 | 15.14 |            |       |       |
|                           |                       | 1720.0             | 17.07                     | 16.15 | 15.15 |            |       |       |
|                           | 50RB_25               | 1770.0             | 17.22                     | 16.27 | 15.26 |            |       |       |
|                           |                       | 1745.0             | 17.14                     | 16.23 | 15.20 |            |       |       |
|                           |                       | 1720.0             | 17.10                     | 16.23 | 15.21 |            |       |       |
|                           | 50RB_0                | 1770.0             | 17.25                     | 16.32 | 15.28 |            |       |       |
|                           |                       | 1745.0             | 17.15                     | 16.24 | 15.19 |            |       |       |
|                           |                       | 1720.0             | 17.11                     | 16.16 | 15.14 |            |       |       |
|                           | 100RB_0               | 1770.0             | 17.19                     | 16.25 | 15.21 |            |       |       |
|                           |                       | 1745.0             | 17.07                     | 16.17 | 15.15 |            |       |       |
|                           |                       | 1720.0             | 17.09                     | 16.14 | 15.15 |            |       |       |

| Ant.5 - Power Level C1/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                   | 1RB_5                 | 1779.3             | 20.64                     | 19.95 | 18.85 | 22.0       | 21.0  | 20.0  |
|                           |                       | 1745.0             | 20.65                     | 19.99 | 18.80 |            |       |       |
|                           |                       | 1710.7             | 20.63                     | 20.00 | 18.73 |            |       |       |
|                           | 1RB_3                 | 1779.3             | 20.66                     | 19.97 | 18.84 |            |       |       |
|                           |                       | 1745.0             | 20.66                     | 20.01 | 18.77 |            |       |       |
|                           |                       | 1710.7             | 20.66                     | 20.00 | 18.80 |            |       |       |
|                           | 1RB_0                 | 1779.3             | 20.65                     | 19.99 | 18.86 |            |       |       |
|                           |                       | 1745.0             | 20.64                     | 19.95 | 18.81 |            |       |       |
|                           |                       | 1710.7             | 20.65                     | 20.00 | 18.79 |            |       |       |
|                           | 3RB_3                 | 1779.3             | 20.64                     | 19.65 | 18.73 |            |       |       |
|                           |                       | 1745.0             | 20.66                     | 19.60 | 18.74 |            |       |       |
|                           |                       | 1710.7             | 20.65                     | 19.63 | 18.79 |            |       |       |
|                           | 3RB_1                 | 1779.3             | 20.64                     | 19.62 | 18.74 |            |       |       |
|                           |                       | 1745.0             | 20.67                     | 19.65 | 18.78 |            |       |       |
|                           |                       | 1710.7             | 20.67                     | 19.64 | 18.81 |            |       |       |
|                           | 3RB_0                 | 1779.3             | 20.65                     | 19.64 | 18.74 |            |       |       |
|                           |                       | 1745.0             | 20.68                     | 19.67 | 18.79 |            |       |       |
|                           |                       | 1710.7             | 20.66                     | 19.66 | 18.82 |            |       |       |
|                           | 6RB_0                 | 1779.3             | 19.65                     | 18.69 | 17.61 | 21.0       | 20.0  | 19.0  |
|                           |                       | 1745.0             | 19.68                     | 18.74 | 17.63 |            |       |       |
|                           |                       | 1710.7             | 19.65                     | 18.70 | 17.60 |            |       |       |

| Ant.5 - Power Level C1/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                     | 1RB_14                | 1778.5             | 20.64                     | 19.97 | 18.80 | 22.0       | 21.0  | 20.0  |
|                           |                       | 1745.0             | 20.62                     | 19.92 | 18.76 |            |       |       |
|                           |                       | 1711.5             | 20.65                     | 19.93 | 18.83 |            |       |       |
|                           | 1RB_7                 | 1778.5             | 20.66                     | 20.04 | 18.85 |            |       |       |
|                           |                       | 1745.0             | 20.66                     | 19.94 | 18.84 |            |       |       |
|                           |                       | 1711.5             | 20.68                     | 19.96 | 18.88 |            |       |       |
|                           | 1RB_0                 | 1778.5             | 20.64                     | 20.00 | 18.84 |            |       |       |
|                           |                       | 1745.0             | 20.66                     | 19.93 | 18.83 |            |       |       |
|                           |                       | 1711.5             | 20.68                     | 19.95 | 18.82 |            |       |       |
|                           | 8RB_7                 | 1778.5             | 19.61                     | 18.65 | 17.65 | 21.0       | 20.0  | 19.0  |
|                           |                       | 1745.0             | 19.61                     | 18.67 | 17.67 |            |       |       |
|                           |                       | 1711.5             | 19.67                     | 18.74 | 17.72 |            |       |       |
|                           | 8RB_4                 | 1778.5             | 19.59                     | 18.68 | 17.65 |            |       |       |
|                           |                       | 1745.0             | 19.63                     | 18.68 | 17.63 |            |       |       |
|                           |                       | 1711.5             | 19.62                     | 18.68 | 17.69 |            |       |       |
|                           | 8RB_0                 | 1778.5             | 19.66                     | 18.73 | 17.71 |            |       |       |
|                           |                       | 1745.0             | 19.66                     | 18.74 | 17.68 |            |       |       |
|                           |                       | 1711.5             | 19.65                     | 18.70 | 17.68 |            |       |       |
|                           | 15RB_0                | 1778.5             | 19.65                     | 18.66 | 17.64 |            |       |       |
|                           |                       | 1745.0             | 19.62                     | 18.65 | 17.64 |            |       |       |
|                           |                       | 1711.5             | 19.67                     | 18.70 | 17.68 |            |       |       |

| Ant.5 - Power Level C1/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                     | 1RB_24                | 1777.5             | 20.68                     | 19.91 | 18.80 | 22.0       | 21.0  | 20.0  |
|                           |                       | 1745.0             | 20.67                     | 19.88 | 18.81 |            |       |       |
|                           |                       | 1712.5             | 20.68                     | 19.95 | 18.84 |            |       |       |
|                           | 1RB_12                | 1777.5             | 20.68                     | 19.92 | 18.83 |            |       |       |
|                           |                       | 1745.0             | 20.69                     | 19.91 | 18.88 |            |       |       |
|                           |                       | 1712.5             | 20.70                     | 19.93 | 18.86 |            |       |       |
|                           | 1RB_0                 | 1777.5             | 20.68                     | 19.93 | 18.80 |            |       |       |
|                           |                       | 1745.0             | 20.69                     | 19.96 | 18.89 |            |       |       |
|                           |                       | 1712.5             | 20.69                     | 19.96 | 18.83 |            |       |       |
|                           | 12RB_13               | 1777.5             | 19.62                     | 18.57 | 17.63 | 21.0       | 20.0  | 19.0  |
|                           |                       | 1745.0             | 19.61                     | 18.58 | 17.62 |            |       |       |
|                           |                       | 1712.5             | 19.71                     | 18.64 | 17.67 |            |       |       |
|                           | 12RB_6                | 1777.5             | 19.69                     | 18.65 | 17.69 |            |       |       |
|                           |                       | 1745.0             | 19.68                     | 18.69 | 17.69 |            |       |       |
|                           |                       | 1712.5             | 19.67                     | 18.69 | 17.71 |            |       |       |
|                           | 12RB_0                | 1777.5             | 19.68                     | 18.69 | 17.71 |            |       |       |
|                           |                       | 1745.0             | 19.73                     | 18.72 | 17.72 |            |       |       |
|                           |                       | 1712.5             | 19.68                     | 18.63 | 17.70 |            |       |       |
|                           | 25RB_0                | 1777.5             | 19.67                     | 18.69 | 17.67 |            |       |       |
|                           |                       | 1745.0             | 19.68                     | 18.67 | 17.65 |            |       |       |
|                           |                       | 1712.5             | 19.70                     | 18.71 | 17.71 |            |       |       |

| Ant.5 - Power Level C1/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                    | 1RB_49                | 1775.0             | 20.64                     | 19.93 | 18.81 | 22.0       | 21.0  | 20.0  |
|                           |                       | 1745.0             | 20.64                     | 19.94 | 18.81 |            |       |       |
|                           |                       | 1715.0             | 20.65                     | 19.99 | 18.82 |            |       |       |
|                           | 1RB_24                | 1775.0             | 20.68                     | 19.98 | 18.83 |            |       |       |
|                           |                       | 1745.0             | 20.69                     | 19.96 | 18.83 |            |       |       |
|                           |                       | 1715.0             | 20.69                     | 20.00 | 18.87 |            |       |       |
|                           | 1RB_0                 | 1775.0             | 20.54                     | 20.03 | 18.90 |            |       |       |
|                           |                       | 1745.0             | 20.69                     | 19.99 | 18.85 |            |       |       |
|                           |                       | 1715.0             | 20.71                     | 20.01 | 18.86 |            |       |       |
|                           | 25RB_25               | 1775.0             | 19.67                     | 18.66 | 17.67 | 21.0       | 20.0  | 19.0  |
|                           |                       | 1745.0             | 19.70                     | 18.65 | 17.69 |            |       |       |
|                           |                       | 1715.0             | 19.70                     | 18.70 | 17.70 |            |       |       |
|                           | 25RB_12               | 1775.0             | 19.66                     | 18.70 | 17.67 |            |       |       |
|                           |                       | 1745.0             | 19.68                     | 18.68 | 17.69 |            |       |       |
|                           |                       | 1715.0             | 19.71                     | 18.67 | 17.70 |            |       |       |
|                           | 25RB_0                | 1775.0             | 19.74                     | 18.70 | 17.75 |            |       |       |
|                           |                       | 1745.0             | 19.70                     | 18.64 | 17.69 |            |       |       |
|                           |                       | 1715.0             | 19.67                     | 18.67 | 17.68 |            |       |       |
|                           | 50RB_0                | 1775.0             | 19.69                     | 18.71 | 17.73 |            |       |       |
|                           |                       | 1745.0             | 19.76                     | 18.70 | 17.71 |            |       |       |
|                           |                       | 1715.0             | 19.71                     | 18.66 | 17.68 |            |       |       |

| Ant.5 - Power Level C1/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                    | 1RB_74                | 1772.5             | 20.59                     | 19.88 | 18.73 | 22.0       | 21.0  | 20.0  |
|                           |                       | 1745.0             | 20.59                     | 19.85 | 18.66 |            |       |       |
|                           |                       | 1717.5             | 20.57                     | 19.82 | 18.67 |            |       |       |
|                           | 1RB_37                | 1772.5             | 20.71                     | 19.97 | 18.82 |            |       |       |
|                           |                       | 1745.0             | 20.67                     | 19.91 | 18.80 |            |       |       |
|                           |                       | 1717.5             | 20.66                     | 19.92 | 18.81 |            |       |       |
|                           | 1RB_0                 | 1772.5             | 20.65                     | 19.99 | 18.80 |            |       |       |
|                           |                       | 1745.0             | 20.65                     | 19.94 | 18.78 |            |       |       |
|                           |                       | 1717.5             | 20.64                     | 19.90 | 18.78 |            |       |       |
|                           | 36RB_38               | 1772.5             | 19.61                     | 18.68 | 17.65 | 21.0       | 20.0  | 19.0  |
|                           |                       | 1745.0             | 19.65                     | 18.61 | 17.63 |            |       |       |
|                           |                       | 1717.5             | 19.66                     | 18.68 | 17.65 |            |       |       |
|                           | 36RB_19               | 1772.5             | 19.70                     | 18.73 | 17.70 |            |       |       |
|                           |                       | 1745.0             | 19.69                     | 18.66 | 17.69 |            |       |       |
|                           |                       | 1717.5             | 19.67                     | 18.67 | 17.64 |            |       |       |
|                           | 36RB_0                | 1772.5             | 19.72                     | 18.70 | 17.70 |            |       |       |
|                           |                       | 1745.0             | 19.63                     | 18.67 | 17.65 |            |       |       |
|                           |                       | 1717.5             | 19.65                     | 18.65 | 17.67 |            |       |       |
|                           | 75RB_0                | 1772.5             | 19.69                     | 18.70 | 17.71 |            |       |       |
|                           |                       | 1745.0             | 19.62                     | 18.61 | 17.64 |            |       |       |
|                           |                       | 1717.5             | 19.69                     | 18.64 | 17.63 |            |       |       |

| Ant.5 - Power Level C1/C2 |                       |                    |                           |       |       |            |       |       |
|---------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66               |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width            | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                           |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                    | 1RB_99                | 1770.0             | 20.56                     | 19.90 | 18.82 | 22.0       | 21.0  | 20.0  |
|                           |                       | 1745.0             | 20.56                     | 19.85 | 18.76 |            |       |       |
|                           |                       | 1720.0             | 20.56                     | 19.83 | 18.73 |            |       |       |
|                           | 1RB_50                | 1770.0             | 20.68                     | 20.06 | 18.95 |            |       |       |
|                           |                       | 1745.0             | 20.66                     | 19.95 | 18.91 |            |       |       |
|                           |                       | 1720.0             | 20.66                     | 19.93 | 18.84 |            |       |       |
|                           | 1RB_0                 | 1770.0             | 20.66                     | 19.99 | 18.90 |            |       |       |
|                           |                       | 1745.0             | 20.65                     | 19.96 | 18.81 |            |       |       |
|                           |                       | 1720.0             | 20.64                     | 19.90 | 18.83 |            |       |       |
|                           | 50RB_50               | 1770.0             | 19.69                     | 18.70 | 17.68 | 21.0       | 20.0  | 19.0  |
|                           |                       | 1745.0             | 19.68                     | 18.66 | 17.66 |            |       |       |
|                           |                       | 1720.0             | 19.63                     | 18.62 | 17.62 |            |       |       |
|                           | 50RB_25               | 1770.0             | 19.74                     | 18.72 | 17.71 |            |       |       |
|                           |                       | 1745.0             | 19.68                     | 18.66 | 17.66 |            |       |       |
|                           |                       | 1720.0             | 19.67                     | 18.67 | 17.65 |            |       |       |
|                           | 50RB_0                | 1770.0             | 19.81                     | 18.83 | 17.85 |            |       |       |
|                           |                       | 1745.0             | 19.71                     | 18.72 | 17.67 |            |       |       |
|                           |                       | 1720.0             | 19.68                     | 18.62 | 17.61 |            |       |       |
|                           | 100RB_0               | 1770.0             | 19.80                     | 18.75 | 17.75 |            |       |       |
|                           |                       | 1745.0             | 19.64                     | 18.62 | 17.65 |            |       |       |
|                           |                       | 1720.0             | 19.63                     | 18.62 | 17.64 |            |       |       |



| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1779.3             | 14.13                     | 14.15 | 14.11 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.07                     | 14.09 | 14.17 |            |       |       |
|                        |                       | 1710.7             | 14.17                     | 14.08 | 14.14 |            |       |       |
|                        | 1RB_3                 | 1779.3             | 14.17                     | 14.22 | 14.21 |            |       |       |
|                        |                       | 1745.0             | 14.24                     | 14.25 | 14.21 |            |       |       |
|                        |                       | 1710.7             | 14.22                     | 14.21 | 14.24 |            |       |       |
|                        | 1RB_0                 | 1779.3             | 14.05                     | 14.08 | 14.03 |            |       |       |
|                        |                       | 1745.0             | 14.20                     | 14.03 | 14.06 |            |       |       |
|                        |                       | 1710.7             | 14.05                     | 13.95 | 13.96 |            |       |       |
|                        | 3RB_3                 | 1779.3             | 14.19                     | 14.15 | 14.14 |            |       |       |
|                        |                       | 1745.0             | 14.17                     | 14.24 | 14.13 |            |       |       |
|                        |                       | 1710.7             | 14.06                     | 14.10 | 14.12 |            |       |       |
|                        | 3RB_1                 | 1779.3             | 14.24                     | 14.06 | 14.15 |            |       |       |
|                        |                       | 1745.0             | 14.25                     | 14.25 | 14.13 |            |       |       |
|                        |                       | 1710.7             | 14.18                     | 14.16 | 14.13 |            |       |       |
|                        | 3RB_0                 | 1779.3             | 14.19                     | 14.20 | 14.27 |            |       |       |
|                        |                       | 1745.0             | 14.13                     | 14.10 | 14.16 |            |       |       |
|                        |                       | 1710.7             | 14.05                     | 14.10 | 14.06 |            |       |       |
|                        | 6RB_0                 | 1779.3             | 14.23                     | 14.19 | 14.18 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.15                     | 14.03 | 14.15 |            |       |       |
|                        |                       | 1710.7             | 14.12                     | 14.01 | 14.08 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1778.5             | 14.15                     | 14.17 | 14.10 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.11                     | 14.09 | 14.18 |            |       |       |
|                        |                       | 1711.5             | 14.15                     | 14.09 | 14.13 |            |       |       |
|                        | 1RB_7                 | 1778.5             | 14.21                     | 14.21 | 14.19 |            |       |       |
|                        |                       | 1745.0             | 14.22                     | 14.29 | 14.23 |            |       |       |
|                        |                       | 1711.5             | 14.20                     | 14.20 | 14.21 |            |       |       |
|                        | 1RB_0                 | 1778.5             | 14.07                     | 14.10 | 14.06 |            |       |       |
|                        |                       | 1745.0             | 14.18                     | 14.05 | 14.05 |            |       |       |
|                        |                       | 1711.5             | 14.08                     | 13.99 | 13.95 |            |       |       |
|                        | 8RB_7                 | 1778.5             | 14.16                     | 14.16 | 14.11 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.20                     | 14.22 | 14.17 |            |       |       |
|                        |                       | 1711.5             | 14.05                     | 14.10 | 14.13 |            |       |       |
|                        | 8RB_4                 | 1778.5             | 14.21                     | 14.04 | 14.13 |            |       |       |
|                        |                       | 1745.0             | 14.28                     | 14.21 | 14.10 |            |       |       |
|                        |                       | 1711.5             | 14.16                     | 14.14 | 14.10 |            |       |       |
|                        | 8RB_0                 | 1778.5             | 14.18                     | 14.20 | 14.26 |            |       |       |
|                        |                       | 1745.0             | 14.15                     | 14.12 | 14.15 |            |       |       |
|                        |                       | 1711.5             | 14.05                     | 14.12 | 14.09 |            |       |       |
|                        | 15RB_0                | 1778.5             | 14.25                     | 14.15 | 14.19 |            |       |       |
|                        |                       | 1745.0             | 14.16                     | 14.06 | 14.16 |            |       |       |
|                        |                       | 1711.5             | 14.09                     | 14.01 | 14.07 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1777.5             | 14.17                     | 14.16 | 14.09 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.11                     | 14.10 | 14.16 |            |       |       |
|                        |                       | 1712.5             | 14.12                     | 14.09 | 14.15 |            |       |       |
|                        | 1RB_12                | 1777.5             | 14.24                     | 14.23 | 14.21 |            |       |       |
|                        |                       | 1745.0             | 14.25                     | 14.32 | 14.26 |            |       |       |
|                        |                       | 1712.5             | 14.20                     | 14.20 | 14.19 |            |       |       |
|                        | 1RB_0                 | 1777.5             | 14.08                     | 14.09 | 14.03 |            |       |       |
|                        |                       | 1745.0             | 14.17                     | 14.07 | 14.06 |            |       |       |
|                        |                       | 1712.5             | 14.08                     | 13.99 | 13.98 |            |       |       |
|                        | 12RB_13               | 1777.5             | 14.18                     | 14.13 | 14.07 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.21                     | 14.20 | 14.19 |            |       |       |
|                        |                       | 1712.5             | 14.06                     | 14.07 | 14.12 |            |       |       |
|                        | 12RB_6                | 1777.5             | 14.17                     | 14.08 | 14.16 |            |       |       |
|                        |                       | 1745.0             | 14.24                     | 14.23 | 14.11 |            |       |       |
|                        |                       | 1712.5             | 14.15                     | 14.17 | 14.07 |            |       |       |
|                        | 12RB_0                | 1777.5             | 14.16                     | 14.22 | 14.22 |            |       |       |
|                        |                       | 1745.0             | 14.12                     | 14.15 | 14.18 |            |       |       |
|                        |                       | 1712.5             | 14.03                     | 14.12 | 14.10 |            |       |       |
|                        | 25RB_0                | 1777.5             | 14.25                     | 14.18 | 14.21 |            |       |       |
|                        |                       | 1745.0             | 14.16                     | 14.08 | 14.12 |            |       |       |
|                        |                       | 1712.5             | 14.08                     | 14.01 | 14.08 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1775.0             | 14.17                     | 14.12 | 14.10 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.07                     | 14.10 | 14.12 |            |       |       |
|                        |                       | 1715.0             | 14.10                     | 14.07 | 14.18 |            |       |       |
|                        | 1RB_24                | 1775.0             | 14.22                     | 14.22 | 14.19 |            |       |       |
|                        |                       | 1745.0             | 14.22                     | 14.28 | 14.26 |            |       |       |
|                        |                       | 1715.0             | 14.20                     | 14.21 | 14.21 |            |       |       |
|                        | 1RB_0                 | 1775.0             | 14.05                     | 14.06 | 14.03 |            |       |       |
|                        |                       | 1745.0             | 14.14                     | 14.09 | 14.07 |            |       |       |
|                        |                       | 1715.0             | 14.06                     | 13.96 | 13.95 |            |       |       |
|                        | 25RB_25               | 1775.0             | 14.16                     | 14.11 | 14.07 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.20                     | 14.18 | 14.22 |            |       |       |
|                        |                       | 1715.0             | 14.09                     | 14.04 | 14.08 |            |       |       |
|                        | 25RB_12               | 1775.0             | 14.15                     | 14.11 | 14.14 |            |       |       |
|                        |                       | 1745.0             | 14.25                     | 14.26 | 14.14 |            |       |       |
|                        |                       | 1715.0             | 14.14                     | 14.15 | 14.09 |            |       |       |
|                        | 25RB_0                | 1775.0             | 14.15                     | 14.23 | 14.24 |            |       |       |
|                        |                       | 1745.0             | 14.13                     | 14.18 | 14.17 |            |       |       |
|                        |                       | 1715.0             | 14.05                     | 14.12 | 14.14 |            |       |       |
|                        | 50RB_0                | 1775.0             | 14.23                     | 14.18 | 14.23 |            |       |       |
|                        |                       | 1745.0             | 14.15                     | 14.12 | 14.12 |            |       |       |
|                        |                       | 1715.0             | 14.09                     | 14.04 | 14.12 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1772.5             | 14.14                     | 14.09 | 14.12 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.10                     | 14.13 | 14.13 |            |       |       |
|                        |                       | 1717.5             | 14.13                     | 14.06 | 14.14 |            |       |       |
|                        | 1RB_37                | 1772.5             | 14.23                     | 14.19 | 14.21 |            |       |       |
|                        |                       | 1745.0             | 14.24                     | 14.30 | 14.25 |            |       |       |
|                        |                       | 1717.5             | 14.22                     | 14.20 | 14.21 |            |       |       |
|                        | 1RB_0                 | 1772.5             | 14.08                     | 14.03 | 14.04 |            |       |       |
|                        |                       | 1745.0             | 14.13                     | 14.11 | 14.06 |            |       |       |
|                        |                       | 1717.5             | 14.07                     | 13.97 | 13.97 |            |       |       |
|                        | 36RB_38               | 1772.5             | 14.12                     | 14.12 | 14.08 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.18                     | 14.16 | 14.21 |            |       |       |
|                        |                       | 1717.5             | 14.10                     | 14.07 | 14.08 |            |       |       |
|                        | 36RB_19               | 1772.5             | 14.16                     | 14.14 | 14.16 |            |       |       |
|                        |                       | 1745.0             | 14.24                     | 14.22 | 14.17 |            |       |       |
|                        |                       | 1717.5             | 14.18                     | 14.14 | 14.12 |            |       |       |
|                        | 36RB_0                | 1772.5             | 14.16                     | 14.19 | 14.26 |            |       |       |
|                        |                       | 1745.0             | 14.16                     | 14.20 | 14.19 |            |       |       |
|                        |                       | 1717.5             | 14.08                     | 14.12 | 14.12 |            |       |       |
|                        | 75RB_0                | 1772.5             | 14.21                     | 14.16 | 14.23 |            |       |       |
|                        |                       | 1745.0             | 14.18                     | 14.11 | 14.14 |            |       |       |
|                        |                       | 1717.5             | 14.11                     | 14.06 | 14.09 |            |       |       |

| Ant.1 - Power Level A2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1770.0             | 14.12                     | 14.09 | 14.13 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.13                     | 14.16 | 14.15 |            |       |       |
|                        |                       | 1720.0             | 14.11                     | 14.09 | 14.11 |            |       |       |
|                        | 1RB_50                | 1770.0             | 14.23                     | 14.21 | 14.24 |            |       |       |
|                        |                       | 1745.0             | 14.25                     | 14.29 | 14.23 |            |       |       |
|                        |                       | 1720.0             | 14.24                     | 14.22 | 14.22 |            |       |       |
|                        | 1RB_0                 | 1770.0             | 14.07                     | 14.05 | 14.04 |            |       |       |
|                        |                       | 1745.0             | 14.12                     | 14.09 | 14.09 |            |       |       |
|                        |                       | 1720.0             | 14.03                     | 13.99 | 14.00 |            |       |       |
|                        | 50RB_50               | 1770.0             | 14.14                     | 14.11 | 14.12 | 15.0       | 15.0  | 15.0  |
|                        |                       | 1745.0             | 14.18                     | 14.14 | 14.20 |            |       |       |
|                        |                       | 1720.0             | 14.11                     | 14.09 | 14.08 |            |       |       |
|                        | 50RB_25               | 1770.0             | 14.17                     | 14.17 | 14.18 |            |       |       |
|                        |                       | 1745.0             | 14.22                     | 14.22 | 14.20 |            |       |       |
|                        |                       | 1720.0             | 14.15                     | 14.12 | 14.14 |            |       |       |
|                        | 50RB_0                | 1770.0             | 14.19                     | 14.16 | 14.22 |            |       |       |
|                        |                       | 1745.0             | 14.17                     | 14.19 | 14.20 |            |       |       |
|                        |                       | 1720.0             | 14.09                     | 14.09 | 14.10 |            |       |       |
|                        | 100RB_0               | 1770.0             | 14.21                     | 14.19 | 14.22 |            |       |       |
|                        |                       | 1745.0             | 14.15                     | 14.13 | 14.12 |            |       |       |
|                        |                       | 1720.0             | 14.08                     | 14.06 | 14.05 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1779.3             | 19.18                     | 19.30 | 19.18 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.14                     | 19.11 | 19.15 |            |       |       |
|                        |                       | 1710.7             | 19.23                     | 19.14 | 19.17 |            |       |       |
|                        | 1RB_3                 | 1779.3             | 19.26                     | 19.30 | 19.38 |            |       |       |
|                        |                       | 1745.0             | 19.37                     | 19.35 | 19.31 |            |       |       |
|                        |                       | 1710.7             | 19.27                     | 19.18 | 19.31 |            |       |       |
|                        | 1RB_0                 | 1779.3             | 19.20                     | 19.05 | 19.06 |            |       |       |
|                        |                       | 1745.0             | 19.16                     | 19.11 | 19.12 |            |       |       |
|                        |                       | 1710.7             | 19.03                     | 19.05 | 19.20 |            |       |       |
|                        | 3RB_3                 | 1779.3             | 19.19                     | 19.13 | 19.24 |            |       |       |
|                        |                       | 1745.0             | 19.10                     | 19.26 | 19.19 |            |       |       |
|                        |                       | 1710.7             | 19.18                     | 19.18 | 19.20 |            |       |       |
|                        | 3RB_1                 | 1779.3             | 19.26                     | 19.22 | 19.19 |            |       |       |
|                        |                       | 1745.0             | 19.29                     | 19.26 | 19.20 |            |       |       |
|                        |                       | 1710.7             | 19.19                     | 19.17 | 19.29 |            |       |       |
|                        | 3RB_0                 | 1779.3             | 19.22                     | 19.13 | 19.23 |            |       |       |
|                        |                       | 1745.0             | 19.12                     | 19.26 | 19.22 |            |       |       |
|                        |                       | 1710.7             | 19.16                     | 19.14 | 19.06 |            |       |       |
|                        | 6RB_0                 | 1779.3             | 19.18                     | 19.31 | 19.26 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.17                     | 19.25 | 19.13 |            |       |       |
|                        |                       | 1710.7             | 19.14                     | 19.15 | 19.10 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1778.5             | 19.21                     | 19.28 | 19.19 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.18                     | 19.14 | 19.14 |            |       |       |
|                        |                       | 1711.5             | 19.25                     | 19.10 | 19.16 |            |       |       |
|                        | 1RB_7                 | 1778.5             | 19.30                     | 19.27 | 19.35 |            |       |       |
|                        |                       | 1745.0             | 19.33                     | 19.33 | 19.29 |            |       |       |
|                        |                       | 1711.5             | 19.27                     | 19.20 | 19.33 |            |       |       |
|                        | 1RB_0                 | 1778.5             | 19.16                     | 19.03 | 19.04 |            |       |       |
|                        |                       | 1745.0             | 19.18                     | 19.14 | 19.13 |            |       |       |
|                        |                       | 1711.5             | 19.06                     | 19.08 | 19.21 |            |       |       |
|                        | 8RB_7                 | 1778.5             | 19.21                     | 19.17 | 19.26 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.13                     | 19.30 | 19.20 |            |       |       |
|                        |                       | 1711.5             | 19.18                     | 19.18 | 19.22 |            |       |       |
|                        | 8RB_4                 | 1778.5             | 19.27                     | 19.24 | 19.17 |            |       |       |
|                        |                       | 1745.0             | 19.26                     | 19.28 | 19.23 |            |       |       |
|                        |                       | 1711.5             | 19.18                     | 19.20 | 19.30 |            |       |       |
|                        | 8RB_0                 | 1778.5             | 19.26                     | 19.12 | 19.26 |            |       |       |
|                        |                       | 1745.0             | 19.16                     | 19.23 | 19.25 |            |       |       |
|                        |                       | 1711.5             | 19.16                     | 19.14 | 19.08 |            |       |       |
|                        | 15RB_0                | 1778.5             | 19.21                     | 19.32 | 19.25 |            |       |       |
|                        |                       | 1745.0             | 19.20                     | 19.25 | 19.17 |            |       |       |
|                        |                       | 1711.5             | 19.16                     | 19.16 | 19.09 |            |       |       |



| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1777.5             | 19.18                     | 19.24 | 19.21 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.17                     | 19.17 | 19.13 |            |       |       |
|                        |                       | 1712.5             | 19.23                     | 19.13 | 19.18 |            |       |       |
|                        | 1RB_12                | 1777.5             | 19.29                     | 19.27 | 19.33 |            |       |       |
|                        |                       | 1745.0             | 19.32                     | 19.31 | 19.30 |            |       |       |
|                        |                       | 1712.5             | 19.29                     | 19.22 | 19.33 |            |       |       |
|                        | 1RB_0                 | 1777.5             | 19.13                     | 19.05 | 19.01 |            |       |       |
|                        |                       | 1745.0             | 19.16                     | 19.13 | 19.15 |            |       |       |
|                        |                       | 1712.5             | 19.04                     | 19.06 | 19.19 |            |       |       |
|                        | 12RB_13               | 1777.5             | 19.23                     | 19.18 | 19.29 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.17                     | 19.30 | 19.20 |            |       |       |
|                        |                       | 1712.5             | 19.17                     | 19.18 | 19.19 |            |       |       |
|                        | 12RB_6                | 1777.5             | 19.27                     | 19.20 | 19.17 |            |       |       |
|                        |                       | 1745.0             | 19.29                     | 19.28 | 19.26 |            |       |       |
|                        |                       | 1712.5             | 19.21                     | 19.22 | 19.27 |            |       |       |
|                        | 12RB_0                | 1777.5             | 19.24                     | 19.15 | 19.24 |            |       |       |
|                        |                       | 1745.0             | 19.20                     | 19.24 | 19.25 |            |       |       |
|                        |                       | 1712.5             | 19.15                     | 19.14 | 19.09 |            |       |       |
|                        | 25RB_0                | 1777.5             | 19.21                     | 19.33 | 19.27 |            |       |       |
|                        |                       | 1745.0             | 19.23                     | 19.22 | 19.19 |            |       |       |
|                        |                       | 1712.5             | 19.16                     | 19.17 | 19.11 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1775.0             | 19.17                     | 19.22 | 19.20 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.16                     | 19.17 | 19.12 |            |       |       |
|                        |                       | 1715.0             | 19.20                     | 19.12 | 19.17 |            |       |       |
|                        | 1RB_24                | 1775.0             | 19.25                     | 19.25 | 19.31 |            |       |       |
|                        |                       | 1745.0             | 19.32                     | 19.34 | 19.29 |            |       |       |
|                        |                       | 1715.0             | 19.27                     | 19.23 | 19.30 |            |       |       |
|                        | 1RB_0                 | 1775.0             | 19.14                     | 19.08 | 19.04 |            |       |       |
|                        |                       | 1745.0             | 19.20                     | 19.14 | 19.18 |            |       |       |
|                        |                       | 1715.0             | 19.02                     | 19.05 | 19.15 |            |       |       |
|                        | 25RB_25               | 1775.0             | 19.23                     | 19.21 | 19.28 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.15                     | 19.28 | 19.17 |            |       |       |
|                        |                       | 1715.0             | 19.15                     | 19.18 | 19.19 |            |       |       |
|                        | 25RB_12               | 1775.0             | 19.24                     | 19.22 | 19.17 |            |       |       |
|                        |                       | 1745.0             | 19.27                     | 19.26 | 19.28 |            |       |       |
|                        |                       | 1715.0             | 19.21                     | 19.20 | 19.24 |            |       |       |
|                        | 25RB_0                | 1775.0             | 19.28                     | 19.15 | 19.26 |            |       |       |
|                        |                       | 1745.0             | 19.22                     | 19.22 | 19.27 |            |       |       |
|                        |                       | 1715.0             | 19.13                     | 19.10 | 19.11 |            |       |       |
|                        | 50RB_0                | 1775.0             | 19.24                     | 19.34 | 19.24 |            |       |       |
|                        |                       | 1745.0             | 19.21                     | 19.18 | 19.19 |            |       |       |
|                        |                       | 1715.0             | 19.12                     | 19.20 | 19.13 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1772.5             | 19.18                     | 19.20 | 19.18 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.15                     | 19.14 | 19.15 |            |       |       |
|                        |                       | 1717.5             | 19.17                     | 19.15 | 19.19 |            |       |       |
|                        | 1RB_37                | 1772.5             | 19.27                     | 19.28 | 19.30 |            |       |       |
|                        |                       | 1745.0             | 19.29                     | 19.32 | 19.29 |            |       |       |
|                        |                       | 1717.5             | 19.26                     | 19.27 | 19.32 |            |       |       |
|                        | 1RB_0                 | 1772.5             | 19.10                     | 19.08 | 19.05 |            |       |       |
|                        |                       | 1745.0             | 19.18                     | 19.11 | 19.16 |            |       |       |
|                        |                       | 1717.5             | 19.05                     | 19.06 | 19.12 |            |       |       |
|                        | 36RB_38               | 1772.5             | 19.22                     | 19.19 | 19.25 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.19                     | 19.24 | 19.21 |            |       |       |
|                        |                       | 1717.5             | 19.16                     | 19.15 | 19.15 |            |       |       |
|                        | 36RB_19               | 1772.5             | 19.20                     | 19.21 | 19.16 |            |       |       |
|                        |                       | 1745.0             | 19.28                     | 19.25 | 19.25 |            |       |       |
|                        |                       | 1717.5             | 19.22                     | 19.18 | 19.23 |            |       |       |
|                        | 36RB_0                | 1772.5             | 19.27                     | 19.19 | 19.22 |            |       |       |
|                        |                       | 1745.0             | 19.20                     | 19.26 | 19.26 |            |       |       |
|                        |                       | 1717.5             | 19.11                     | 19.08 | 19.07 |            |       |       |
|                        | 75RB_0                | 1772.5             | 19.23                     | 19.31 | 19.24 |            |       |       |
|                        |                       | 1745.0             | 19.20                     | 19.21 | 19.15 |            |       |       |
|                        |                       | 1717.5             | 19.11                     | 19.16 | 19.15 |            |       |       |

| Ant.1 - Power Level B2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1770.0             | 19.16                     | 19.17 | 19.20 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.17                     | 19.16 | 19.16 |            |       |       |
|                        |                       | 1720.0             | 19.15                     | 19.16 | 19.18 |            |       |       |
|                        | 1RB_50                | 1770.0             | 19.27                     | 19.25 | 19.28 |            |       |       |
|                        |                       | 1745.0             | 19.29                     | 19.34 | 19.29 |            |       |       |
|                        |                       | 1720.0             | 19.28                     | 19.29 | 19.31 |            |       |       |
|                        | 1RB_0                 | 1770.0             | 19.11                     | 19.08 | 19.07 |            |       |       |
|                        |                       | 1745.0             | 19.16                     | 19.15 | 19.16 |            |       |       |
|                        |                       | 1720.0             | 19.07                     | 19.08 | 19.09 |            |       |       |
|                        | 50RB_50               | 1770.0             | 19.18                     | 19.19 | 19.21 | 20.0       | 20.0  | 20.0  |
|                        |                       | 1745.0             | 19.22                     | 19.24 | 19.21 |            |       |       |
|                        |                       | 1720.0             | 19.15                     | 19.12 | 19.16 |            |       |       |
|                        | 50RB_25               | 1770.0             | 19.21                     | 19.20 | 19.19 |            |       |       |
|                        |                       | 1745.0             | 19.26                     | 19.25 | 19.28 |            |       |       |
|                        |                       | 1720.0             | 19.19                     | 19.16 | 19.23 |            |       |       |
|                        | 50RB_0                | 1770.0             | 19.23                     | 19.20 | 19.24 |            |       |       |
|                        |                       | 1745.0             | 19.21                     | 19.22 | 19.22 |            |       |       |
|                        |                       | 1720.0             | 19.13                     | 19.11 | 19.09 |            |       |       |
|                        | 100RB_0               | 1770.0             | 19.25                     | 19.28 | 19.24 |            |       |       |
|                        |                       | 1745.0             | 19.19                     | 19.21 | 19.16 |            |       |       |
|                        |                       | 1720.0             | 19.12                     | 19.12 | 19.16 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 1.4 MHz                | 1RB_5                 | 1779.3             | 21.03                     | 20.99 | 20.98 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.06                     | 21.07 | 21.02 |            |       |       |
|                        |                       | 1710.7             | 21.04                     | 21.03 | 21.01 |            |       |       |
|                        | 1RB_3                 | 1779.3             | 21.11                     | 21.10 | 21.20 |            |       |       |
|                        |                       | 1745.0             | 21.11                     | 21.17 | 21.15 |            |       |       |
|                        |                       | 1710.7             | 21.06                     | 21.14 | 21.20 |            |       |       |
|                        | 1RB_0                 | 1779.3             | 21.11                     | 21.04 | 21.05 |            |       |       |
|                        |                       | 1745.0             | 21.00                     | 21.10 | 21.09 |            |       |       |
|                        |                       | 1710.7             | 21.02                     | 21.02 | 21.02 |            |       |       |
|                        | 3RB_3                 | 1779.3             | 21.06                     | 21.08 | 21.06 |            |       |       |
|                        |                       | 1745.0             | 21.03                     | 21.06 | 21.09 |            |       |       |
|                        |                       | 1710.7             | 21.01                     | 21.04 | 21.05 |            |       |       |
|                        | 3RB_1                 | 1779.3             | 21.10                     | 21.06 | 21.90 |            |       |       |
|                        |                       | 1745.0             | 21.17                     | 21.09 | 21.13 |            |       |       |
|                        |                       | 1710.7             | 21.05                     | 21.12 | 21.10 |            |       |       |
|                        | 3RB_0                 | 1779.3             | 21.08                     | 21.11 | 21.02 |            |       |       |
|                        |                       | 1745.0             | 21.09                     | 21.07 | 21.07 |            |       |       |
|                        |                       | 1710.7             | 21.08                     | 21.02 | 21.06 |            |       |       |
|                        | 6RB_0                 | 1779.3             | 21.14                     | 21.13 | 20.77 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.01                     | 21.03 | 20.72 |            |       |       |
|                        |                       | 1710.7             | 21.00                     | 21.03 | 20.61 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 3 MHz                  | 1RB_14                | 1778.5             | 21.10                     | 21.01 | 21.14 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.08                     | 21.07 | 21.02 |            |       |       |
|                        |                       | 1711.5             | 21.02                     | 21.00 | 21.04 |            |       |       |
|                        | 1RB_7                 | 1778.5             | 21.13                     | 21.17 | 21.16 |            |       |       |
|                        |                       | 1745.0             | 21.13                     | 21.20 | 21.19 |            |       |       |
|                        |                       | 1711.5             | 21.11                     | 21.07 | 21.15 |            |       |       |
|                        | 1RB_0                 | 1778.5             | 21.07                     | 21.04 | 21.06 |            |       |       |
|                        |                       | 1745.0             | 21.09                     | 21.05 | 21.06 |            |       |       |
|                        |                       | 1711.5             | 21.14                     | 21.07 | 21.02 |            |       |       |
|                        | 8RB_7                 | 1778.5             | 21.05                     | 21.09 | 20.77 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.14                     | 21.06 | 20.73 |            |       |       |
|                        |                       | 1711.5             | 21.03                     | 21.06 | 20.66 |            |       |       |
|                        | 8RB_4                 | 1778.5             | 21.08                     | 21.12 | 20.68 |            |       |       |
|                        |                       | 1745.0             | 21.13                     | 21.19 | 20.70 |            |       |       |
|                        |                       | 1711.5             | 21.05                     | 21.11 | 20.66 |            |       |       |
|                        | 8RB_0                 | 1778.5             | 21.06                     | 21.12 | 20.65 |            |       |       |
|                        |                       | 1745.0             | 21.02                     | 21.00 | 20.70 |            |       |       |
|                        |                       | 1711.5             | 21.01                     | 21.06 | 20.68 |            |       |       |
|                        | 15RB_0                | 1778.5             | 21.13                     | 21.12 | 20.81 |            |       |       |
|                        |                       | 1745.0             | 21.05                     | 21.15 | 20.77 |            |       |       |
|                        |                       | 1711.5             | 21.15                     | 21.02 | 20.60 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 5 MHz                  | 1RB_24                | 1777.5             | 21.10                     | 21.01 | 21.14 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.08                     | 21.07 | 21.02 |            |       |       |
|                        |                       | 1712.5             | 21.02                     | 21.00 | 21.04 |            |       |       |
|                        | 1RB_12                | 1777.5             | 21.13                     | 21.17 | 21.16 |            |       |       |
|                        |                       | 1745.0             | 21.13                     | 21.20 | 21.19 |            |       |       |
|                        |                       | 1712.5             | 21.11                     | 21.07 | 21.15 |            |       |       |
|                        | 1RB_0                 | 1777.5             | 21.07                     | 21.04 | 21.06 |            |       |       |
|                        |                       | 1745.0             | 21.09                     | 21.05 | 21.06 |            |       |       |
|                        |                       | 1712.5             | 21.14                     | 21.07 | 21.02 |            |       |       |
|                        | 12RB_13               | 1777.5             | 21.05                     | 21.09 | 20.77 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.14                     | 21.06 | 20.73 |            |       |       |
|                        |                       | 1712.5             | 21.03                     | 21.06 | 20.66 |            |       |       |
|                        | 12RB_6                | 1777.5             | 21.08                     | 21.12 | 20.68 |            |       |       |
|                        |                       | 1745.0             | 21.13                     | 21.19 | 20.70 |            |       |       |
|                        |                       | 1712.5             | 21.05                     | 21.11 | 20.66 |            |       |       |
|                        | 12RB_0                | 1777.5             | 21.06                     | 21.12 | 20.65 |            |       |       |
|                        |                       | 1745.0             | 21.02                     | 21.00 | 20.70 |            |       |       |
|                        |                       | 1712.5             | 21.01                     | 21.06 | 20.68 |            |       |       |
|                        | 25RB_0                | 1777.5             | 21.13                     | 21.12 | 20.81 |            |       |       |
|                        |                       | 1745.0             | 21.05                     | 21.15 | 20.77 |            |       |       |
|                        |                       | 1712.5             | 21.15                     | 21.02 | 20.60 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 10 MHz                 | 1RB_49                | 1775.0             | 21.06                     | 21.00 | 21.13 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.06                     | 21.04 | 21.03 |            |       |       |
|                        |                       | 1715.0             | 21.05                     | 21.02 | 21.05 |            |       |       |
|                        | 1RB_24                | 1775.0             | 21.15                     | 21.14 | 21.20 |            |       |       |
|                        |                       | 1745.0             | 21.12                     | 21.19 | 21.18 |            |       |       |
|                        |                       | 1715.0             | 21.14                     | 21.10 | 21.19 |            |       |       |
|                        | 1RB_0                 | 1775.0             | 21.09                     | 21.07 | 21.05 |            |       |       |
|                        |                       | 1745.0             | 21.05                     | 21.09 | 21.02 |            |       |       |
|                        |                       | 1715.0             | 21.12                     | 21.03 | 21.05 |            |       |       |
|                        | 25RB_25               | 1775.0             | 21.02                     | 21.06 | 20.76 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.12                     | 21.04 | 20.76 |            |       |       |
|                        |                       | 1715.0             | 21.07                     | 21.03 | 20.68 |            |       |       |
|                        | 25RB_12               | 1775.0             | 21.08                     | 21.12 | 20.69 |            |       |       |
|                        |                       | 1745.0             | 21.16                     | 21.17 | 20.72 |            |       |       |
|                        |                       | 1715.0             | 21.01                     | 21.09 | 20.66 |            |       |       |
|                        | 25RB_0                | 1775.0             | 21.08                     | 21.09 | 20.69 |            |       |       |
|                        |                       | 1745.0             | 21.05                     | 21.04 | 20.70 |            |       |       |
|                        |                       | 1715.0             | 21.01                     | 21.09 | 20.64 |            |       |       |
|                        | 50RB_0                | 1775.0             | 21.13                     | 21.11 | 20.78 |            |       |       |
|                        |                       | 1745.0             | 21.07                     | 21.11 | 20.73 |            |       |       |
|                        |                       | 1715.0             | 21.14                     | 21.03 | 20.57 |            |       |       |



| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 15 MHz                 | 1RB_74                | 1772.5             | 21.07                     | 21.05 | 21.09 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.05                     | 21.06 | 21.03 |            |       |       |
|                        |                       | 1717.5             | 21.03                     | 21.00 | 21.02 |            |       |       |
|                        | 1RB_37                | 1772.5             | 21.12                     | 21.13 | 21.19 |            |       |       |
|                        |                       | 1745.0             | 21.16                     | 21.19 | 21.20 |            |       |       |
|                        |                       | 1717.5             | 21.17                     | 21.13 | 21.19 |            |       |       |
|                        | 1RB_0                 | 1772.5             | 21.07                     | 21.09 | 21.04 |            |       |       |
|                        |                       | 1745.0             | 21.08                     | 21.09 | 21.08 |            |       |       |
|                        |                       | 1717.5             | 21.08                     | 21.06 | 21.01 |            |       |       |
|                        | 36RB_38               | 1772.5             | 21.02                     | 21.05 | 20.74 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.12                     | 21.04 | 20.73 |            |       |       |
|                        |                       | 1717.5             | 21.03                     | 21.01 | 20.66 |            |       |       |
|                        | 36RB_19               | 1772.5             | 21.07                     | 21.09 | 20.67 |            |       |       |
|                        |                       | 1745.0             | 21.13                     | 21.15 | 20.73 |            |       |       |
|                        |                       | 1717.5             | 21.03                     | 21.06 | 20.65 |            |       |       |
|                        | 36RB_0                | 1772.5             | 21.06                     | 21.13 | 20.69 |            |       |       |
|                        |                       | 1745.0             | 21.06                     | 21.03 | 20.71 |            |       |       |
|                        |                       | 1717.5             | 21.01                     | 21.05 | 20.62 |            |       |       |
|                        | 75RB_0                | 1772.5             | 21.13                     | 21.14 | 20.79 |            |       |       |
|                        |                       | 1745.0             | 21.07                     | 21.10 | 20.72 |            |       |       |
|                        |                       | 1717.5             | 21.10                     | 21.00 | 20.60 |            |       |       |

| Ant.1 - Power Level C2 |                       |                    |                           |       |       |            |       |       |
|------------------------|-----------------------|--------------------|---------------------------|-------|-------|------------|-------|-------|
| LTE Band 66            |                       |                    | Actual output Power (dBm) |       |       | Tune up    |       |       |
| Band<br>-width         | RB No. /<br>RB offset | Frequency<br>(MHz) | Modulation                |       |       | Modulation |       |       |
|                        |                       |                    | QPSK                      | 16QAM | 64QAM | QPSK       | 16QAM | 64QAM |
| 20 MHz                 | 1RB_99                | 1770.0             | 21.04                     | 21.03 | 21.08 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.05                     | 21.02 | 21.01 |            |       |       |
|                        |                       | 1720.0             | 21.03                     | 21.02 | 21.05 |            |       |       |
|                        | 1RB_50                | 1770.0             | 21.15                     | 21.11 | 21.17 |            |       |       |
|                        |                       | 1745.0             | 21.17                     | 21.17 | 21.18 |            |       |       |
|                        |                       | 1720.0             | 21.16                     | 21.15 | 21.19 |            |       |       |
|                        | 1RB_0                 | 1770.0             | 21.07                     | 21.10 | 21.06 |            |       |       |
|                        |                       | 1745.0             | 21.04                     | 21.05 | 21.02 |            |       |       |
|                        |                       | 1720.0             | 21.05                     | 21.02 | 21.05 |            |       |       |
|                        | 50RB_50               | 1770.0             | 21.04                     | 21.04 | 20.70 | 22.0       | 22.0  | 22.0  |
|                        |                       | 1745.0             | 21.08                     | 21.04 | 20.72 |            |       |       |
|                        |                       | 1720.0             | 21.01                     | 21.02 | 20.69 |            |       |       |
|                        | 50RB_25               | 1770.0             | 21.07                     | 21.07 | 20.68 |            |       |       |
|                        |                       | 1745.0             | 21.12                     | 21.12 | 20.77 |            |       |       |
|                        |                       | 1720.0             | 21.05                     | 21.06 | 20.68 |            |       |       |
|                        | 50RB_0                | 1770.0             | 21.09                     | 21.09 | 20.72 |            |       |       |
|                        |                       | 1745.0             | 21.07                     | 21.06 | 20.75 |            |       |       |
|                        |                       | 1720.0             | 21.02                     | 21.03 | 20.60 |            |       |       |
|                        | 100RB_0               | 1770.0             | 21.11                     | 21.11 | 20.75 |            |       |       |
|                        |                       | 1745.0             | 21.05                     | 21.07 | 20.71 |            |       |       |
|                        |                       | 1720.0             | 21.08                     | 21.03 | 20.60 |            |       |       |

## LTE UP-Link Carrier Aggregation

The device supports Inter-band and Intra-band uplink LTE Carrier Aggregation, and the detail for CA list is described in chapter 11.2. The conducted power measurement results of Intra-band uplink CA are provided as follow.

|            |            | Power Level A1 |         |       |        |      |     |    |         |       |         |      |     |    |           |            |
|------------|------------|----------------|---------|-------|--------|------|-----|----|---------|-------|---------|------|-----|----|-----------|------------|
| Configure  |            | CA List        | PCC     |       |        |      |     |    | SCC     |       |         |      |     |    | Power     |            |
|            |            |                | LTE     | BW    | UL     | Mod. | UL# | UL | LTE     | BW    | UL      | Mod. | UL# | UL | With CA   | Without CA |
|            |            |                | Band    | (MHz) | Freq.  |      | RB  | RB | Band    | (MHz) | Freq.   |      | RB  | RB | Tx. Power | Tx. Power  |
|            |            |                |         |       | (MHz)  |      |     |    |         |       | Off set |      |     |    |           |            |
| Intra-Band | Contiguous | CA_5B          | Band 5  | 10M   | 836.5  | QPSK | 1   | 0  | Band 5  | 5M    | 843.7   | QPSK | 1   | 0  | 23.96     | 24.01      |
|            |            | CA_66B         | Band 66 | 10M   | 1715.0 | QPSK | 1   | 99 | Band 66 | 10M   | 1724.9  | QPSK | 1   | 0  | 23.03     | 23.07      |
|            |            | CA_66C         | Band 66 | 20M   | 1770.0 | QPSK | 1   | 0  | Band 66 | 20M   | 1750.2  | QPSK | 1   | 0  | 22.90     | 22.95      |

|            |            |        | Power Level B1 |      |        |        |      |     |         |      |        |       |      |     |       |           |            |
|------------|------------|--------|----------------|------|--------|--------|------|-----|---------|------|--------|-------|------|-----|-------|-----------|------------|
| Configure  |            |        | CA List        | PCC  |        |        |      |     |         | SCC  |        |       |      |     |       | Power     |            |
|            |            |        |                | LTE  | BW     | UL     | Mod. | UL# | UL      | LTE  | BW     | UL    | Mod. | UL# | UL    | With CA   | Without CA |
|            |            |        |                | Band | (MHz)  | Freq.  |      | RB  | RB      | Band | (MHz)  | Freq. |      | RB  | RB    | Tx. Power | Tx. Power  |
|            |            |        |                |      | (MHz)  | Offset |      |     | (MHz)   |      | Offset | (dBm) |      |     | (dBm) |           |            |
| Intra-Band | Contiguous | CA_5B  | Band 5         | 10M  | 836.5  | QPSK   | 1    | 0   | Band 5  | 5M   | 843.7  | QPSK  | 1    | 0   | 23.96 | 24.01     |            |
|            |            | CA_66B | Band 66        | 10M  | 1745.0 | QPSK   | 1    | 0   | Band 66 | 10M  | 1765.1 | QPSK  | 1    | 0   | 19.34 | 18.39     |            |
|            |            | CA_66C | Band 66        | 20M  | 1770.0 | QPSK   | 1    | 0   | Band 66 | 20M  | 1750.2 | QPSK  | 1    | 0   | 19.30 | 18.39     |            |

|            |            | Power Level C1 |         |       |        |      |     |              |         |       |        |      |     |              |                    |                    |
|------------|------------|----------------|---------|-------|--------|------|-----|--------------|---------|-------|--------|------|-----|--------------|--------------------|--------------------|
| Configure  |            | CA List        | PCC     |       |        |      |     |              | SCC     |       |        |      |     |              | Power              |                    |
|            |            |                | LTE     | BW    | UL     | Mod. | UL# | UL           | LTE     | BW    | UL     | Mod. | UL# | UL           | With CA            | Without CA         |
|            |            |                | Band    | (MHz) | Freq.  |      | RB  | RB<br>Offset | Band    | (MHz) | Freq.  |      | RB  | RB<br>Offset | Tx. Power<br>(dBm) | Tx. Power<br>(dBm) |
|            |            |                |         |       | (MHz)  |      |     |              |         |       | (MHz)  |      |     |              |                    |                    |
| Intra-Band | Contiguous | CA_5B          | Band 5  | 10M   | 836.5  | QPSK | 1   | 0            | Band 5  | 5M    | 843.7  | QPSK | 1   | 0            | 23.96              | 24.01              |
|            |            | CA_66B         | Band 66 | 10M   | 1715.0 | QPSK | 1   | 0            | Band 66 | 10M   | 1724.9 | QPSK | 1   | 0            | 20.66              | 20.71              |
|            |            | CA_66C         | Band 66 | 20M   | 1770.0 | QPSK | 1   | 0            | Band 66 | 20M   | 1750.2 | QPSK | 1   | 0            | 20.62              | 20.68              |



## LTE Down-Link Carrier Aggregation

The measurement results of down-link LTE 2CA Conducted Power are as below:

| Configure  |                | CA List    | PCC     |       |                |         |      |    | SCC          |         |       |                | Power   |                    |                    |
|------------|----------------|------------|---------|-------|----------------|---------|------|----|--------------|---------|-------|----------------|---------|--------------------|--------------------|
|            |                |            | LTE     | BW    | UL             | UL      | UL#  | UL | LTE          | BW      | DL    | DL             | With CA | Without CA         |                    |
|            |                |            | Band    | (MHz) | Freq.<br>(MHz) | Channel | Mod. | RB | RB<br>Offset | Band    | (MHz) | Freq.<br>(MHz) | Channel | Tx. Power<br>(dBm) | Tx. Power<br>(dBm) |
| Inter-Band |                | CA_2A-4A   | Band 2  | 20M   | 1880.0         | 18900   | QPSK | 1  | 50           | Band 4  | 20M   | 2132.5         | 2175    | 23.03              | 23.09              |
|            |                | CA_2A-5A   | Band 2  | 20M   | 1880.0         | 18900   | QPSK | 1  | 50           | Band 5  | 10M   | 881.5          | 2525    | 23.05              | 23.09              |
|            |                | CA_2A-13A  | Band 2  | 20M   | 1880.0         | 18900   | QPSK | 1  | 50           | Band 13 | 10M   | 751.0          | 5230    | 22.98              | 23.09              |
|            |                | CA_2A-66A  | Band 2  | 20M   | 1880.0         | 18900   | QPSK | 1  | 50           | Band 66 | 20M   | 2155.0         | 66886   | 23.02              | 23.09              |
|            |                | CA_4A-5A   | Band 4  | 20M   | 1745.0         | 20300   | QPSK | 1  | 50           | Band 5  | 10M   | 881.5          | 2525    | 22.97              | 23.05              |
|            |                | CA_4A-13A  | Band 4  | 20M   | 1745.0         | 20300   | QPSK | 1  | 50           | Band 13 | 10M   | 751.0          | 5230    | 23.00              | 23.05              |
|            |                | CA_5A-13A  | Band 5  | 10M   | 836.5          | 20525   | QPSK | 1  | 24           | Band 13 | 10M   | 751.0          | 5230    | 23.96              | 24.01              |
|            |                | CA_5A-66A  | Band 5  | 10M   | 836.5          | 20525   | QPSK | 1  | 24           | Band 66 | 20M   | 2155.0         | 66886   | 23.93              | 24.01              |
|            |                | CA_13A-66A | Band 13 | 10M   | 782.0          | 23230   | QPSK | 1  | 24           | Band 66 | 20M   | 2155.0         | 66886   | 23.84              | 23.89              |
|            |                | CA_5B      | Band 5  | 10M   | 836.5          | 20525   | QPSK | 1  | 24           | Band 5  | 10M   | 891.4          | 2624    | 23.95              | 24.01              |
| Intra-Band | Contiguous     | CA_66B     | Band 66 | 15M   | 1745.0         | 132322  | QPSK | 1  | 37           | Band 66 | 5M    | 2164.3         | 66979   | 22.87              | 22.94              |
|            |                | CA_66C     | Band 66 | 20M   | 1770.0         | 132572  | QPSK | 1  | 50           | Band 66 | 20M   | 2170.2         | 67038   | 22.82              | 22.95              |
|            |                | CA_2A-2A   | Band 2  | 20M   | 1880.0         | 18900   | QPSK | 1  | 50           | Band 2  | 5M    | 1987.5         | 1175    | 23.02              | 23.09              |
|            | Non-Contiguous | CA_4A-4A   | Band 4  | 20M   | 1745.0         | 20300   | QPSK | 1  | 50           | Band 4  | 5M    | 2112.5         | 1975    | 22.96              | 23.05              |
|            |                | CA_5A-5A   | Band 5  | 10M   | 836.5          | 20525   | QPSK | 1  | 24           | Band 5  | 5M    | 891.5          | 2625    | 23.95              | 24.01              |
|            |                | CA_66A-66A | Band 66 | 20M   | 1770.0         | 132572  | QPSK | 1  | 50           | Band 66 | 5M    | 2112.5         | 66461   | 22.89              | 22.95              |
|            |                |            |         |       |                |         |      |    |              |         |       |                |         |                    |                    |
|            |                |            |         |       |                |         |      |    |              |         |       |                |         |                    |                    |

### 10.3. NR Measurement result

**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                                                                                                                                                                                                                                                                                                | $\leq 3.5^1$        | $\leq 1.2^1$         | $\leq 0.2^1$         |
|                                                                                                                                                                                                                                                                                                                     | $0.5^2$             | $0.5^2$              | $0^2$                |
| DFT-s-OFDM QPSK                                                                                                                                                                                                                                                                                                     | $\leq 1$            |                      | 0                    |
| DFT-s-OFDM 16 QAM                                                                                                                                                                                                                                                                                                   | $\leq 2$            |                      | $\leq 1$             |
| DFT-s-OFDM 64 QAM                                                                                                                                                                                                                                                                                                   | $\leq 2.5$          |                      |                      |
| DFT-s-OFDM 256 QAM                                                                                                                                                                                                                                                                                                  | 4.5                 |                      |                      |
| CP-OFDM QPSK                                                                                                                                                                                                                                                                                                        | $\leq 3$            |                      | $\leq 1.5$           |
| CP-OFDM 16 QAM                                                                                                                                                                                                                                                                                                      | $\leq 3$            |                      | $\leq 2$             |
| CP-OFDM 64 QAM                                                                                                                                                                                                                                                                                                      | $\leq 3.5$          |                      |                      |
| CP-OFDM 256 QAM                                                                                                                                                                                                                                                                                                     | $\leq 6.5$          |                      |                      |
| NOTE 1: Applicable for UE operating in TDD mode with PI/2 PBSK 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 band n77. The reference power of 0 dB MPR is 26dBm. |                     |                      |                      |
| NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n77 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 band n77.                                                                                        |                     |                      |                      |

Note: For this device, NR n77 band support PC3 and PC2 mode with 100% duty cycle, so we choose high power PC2 mode to measure conducted power and SAR testing.

| Power Level A2 |             |                      |                     |       |                    |               |                             |
|----------------|-------------|----------------------|---------------------|-------|--------------------|---------------|-----------------------------|
| NR n2          |             |                      |                     |       |                    | Tune up: 24.5 |                             |
| SCS<br>(kHz)   | BW<br>(MHz) | Modulation           | RB allocation       |       | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 1907.5             | 381500        | 23.24                       |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 1880.0             | 376000        | 23.26                       |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 1852.5             | 370500        | 23.25                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 1900.0             | 380000        | 23.23                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 1880.0             | 376000        | 23.28                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 1860.0             | 372000        | 23.19                       |
| 15             | 20          | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 50@25 | 1880.0             | 376000        | 23.27                       |
| 15             | 20          | DFT-s-OFDM 16QAM     | Inner_Full          | 50@25 | 1880.0             | 376000        | 22.19                       |
| 15             | 20          | DFT-s-OFDM 64QAM     | Inner_Full          | 50@25 | 1880.0             | 376000        | 20.85                       |
| 15             | 20          | DFT-s-OFDM 256QAM    | Inner_Full          | 50@25 | 1880.0             | 376000        | 18.85                       |
| 15             | 20          | CP-OFDM QPSK         | Inner_Full          | 53@26 | 1880.0             | 376000        | 21.62                       |
| 15             | 20          | CP-OFDM 16QAM        | Inner_Full          | 53@26 | 1880.0             | 376000        | 21.15                       |
| 15             | 20          | CP-OFDM 64QAM        | Inner_Full          | 53@26 | 1880.0             | 376000        | 19.75                       |
| 15             | 20          | CP-OFDM 256QAM       | Inner_Full          | 53@26 | 1880.0             | 376000        | 16.83                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@104 | 1880.0             | 376000        | 22.13                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0   | 1880.0             | 376000        | 22.19                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@104 | 1880.0             | 376000        | 23.11                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1   | 1880.0             | 376000        | 23.18                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Outer_Full          | 100@0 | 1880.0             | 376000        | 22.19                       |
| 15             | 10          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 25@12 | 1880.0             | 376000        | 22.98                       |
| 15             | 15          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 36@18 | 1880.0             | 376000        | 23.16                       |

| Power Level B2/C2 |             |                      |                     |       |                    |               |                             |
|-------------------|-------------|----------------------|---------------------|-------|--------------------|---------------|-----------------------------|
| NR n2             |             |                      |                     |       |                    | Tune up: 20.0 |                             |
| SCS<br>(kHz)      | BW<br>(MHz) | Modulation           | RB allocation       |       | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 15                | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 1907.5             | 381500        | 18.76                       |
| 15                | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 1880.0             | 376000        | 18.77                       |
| 15                | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 1852.5             | 370500        | 18.74                       |
| 15                | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 1900.0             | 380000        | 18.78                       |
| 15                | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 1880.0             | 376000        | 18.81                       |
| 15                | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 1860.0             | 372000        | 18.75                       |
| 15                | 20          | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 50@25 | 1880.0             | 376000        | 18.76                       |
| 15                | 20          | DFT-s-OFDM 16QAM     | Inner_Full          | 50@25 | 1880.0             | 376000        | 18.75                       |
| 15                | 20          | DFT-s-OFDM 64QAM     | Inner_Full          | 50@25 | 1880.0             | 376000        | 18.79                       |
| 15                | 20          | DFT-s-OFDM 256QAM    | Inner_Full          | 50@25 | 1880.0             | 376000        | 18.80                       |
| 15                | 20          | CP-OFDM QPSK         | Inner_Full          | 53@26 | 1880.0             | 376000        | 18.77                       |
| 15                | 20          | CP-OFDM 16QAM        | Inner_Full          | 53@26 | 1880.0             | 376000        | 18.73                       |
| 15                | 20          | CP-OFDM 64QAM        | Inner_Full          | 53@26 | 1880.0             | 376000        | 18.73                       |
| 15                | 20          | CP-OFDM 256QAM       | Inner_Full          | 53@26 | 1880.0             | 376000        | 16.74                       |
| 15                | 20          | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@104 | 1880.0             | 376000        | 18.68                       |
| 15                | 20          | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0   | 1880.0             | 376000        | 18.67                       |
| 15                | 20          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@104 | 1880.0             | 376000        | 18.62                       |
| 15                | 20          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1   | 1880.0             | 376000        | 18.61                       |
| 15                | 20          | DFT-s-OFDM QPSK      | Outer_Full          | 100@0 | 1880.0             | 376000        | 18.74                       |
| 15                | 10          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 25@12 | 1880.0             | 376000        | 18.58                       |
| 15                | 15          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 36@18 | 1880.0             | 376000        | 18.55                       |

| Power Level A2/B2/C2 |             |                      |                     |       |                    |               |                             |
|----------------------|-------------|----------------------|---------------------|-------|--------------------|---------------|-----------------------------|
| NR n5                |             |                      |                     |       |                    | Tune up: 25.0 |                             |
| SCS<br>(kHz)         | BW<br>(MHz) | Modulation           | RB allocation       |       | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 15                   | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 846.5              | 169300        | 23.74                       |
| 15                   | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 836.5              | 167300        | 23.78                       |
| 15                   | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6  | 826.5              | 165300        | 23.75                       |
| 15                   | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 839.0              | 167800        | 23.77                       |
| 15                   | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 836.5              | 167300        | 23.82                       |
| 15                   | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25 | 834.0              | 166800        | 23.74                       |
| 15                   | 20          | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 50@25 | 836.5              | 167300        | 23.77                       |
| 15                   | 20          | DFT-s-OFDM 16QAM     | Inner_Full          | 50@25 | 836.5              | 167300        | 22.71                       |
| 15                   | 20          | DFT-s-OFDM 64QAM     | Inner_Full          | 50@25 | 836.5              | 167300        | 21.16                       |
| 15                   | 20          | DFT-s-OFDM 256QAM    | Inner_Full          | 50@25 | 836.5              | 167300        | 19.17                       |
| 15                   | 20          | CP-OFDM QPSK         | Inner_Full          | 53@26 | 836.5              | 167300        | 22.14                       |
| 15                   | 20          | CP-OFDM 16QAM        | Inner_Full          | 53@26 | 836.5              | 167300        | 21.64                       |
| 15                   | 20          | CP-OFDM 64QAM        | Inner_Full          | 53@26 | 836.5              | 167300        | 20.04                       |
| 15                   | 20          | CP-OFDM 256QAM       | Inner_Full          | 53@26 | 836.5              | 167300        | 17.23                       |
| 15                   | 20          | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@23  | 836.5              | 167300        | 22.60                       |
| 15                   | 20          | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0   | 836.5              | 167300        | 22.67                       |
| 15                   | 20          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@23  | 836.5              | 167300        | 23.63                       |
| 15                   | 20          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1   | 836.5              | 167300        | 23.64                       |
| 15                   | 20          | DFT-s-OFDM QPSK      | Outer_Full          | 25@0  | 836.5              | 167300        | 22.69                       |
| 15                   | 10          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12 | 836.5              | 167300        | 23.52                       |
| 15                   | 15          | DFT-s-OFDM QPSK      | Inner_Full          | 36@18 | 836.5              | 167300        | 23.69                       |



| Power Level A2 |             |                      |                     |        |                    |               |                             |
|----------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n66         |             |                      |                     |        |                    | Tune up: 24.5 |                             |
| SCS<br>(kHz)   | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1777.5             | 355500        | 22.98                       |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1745.0             | 349000        | 23.05                       |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1712.5             | 342500        | 23.03                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1760.0             | 352000        | 23.03                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1745.0             | 349000        | 23.08                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1730.0             | 346000        | 23.04                       |
| 15             | 40          | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 108@54 | 1745.0             | 349000        | 23.07                       |
| 15             | 40          | DFT-s-OFDM 16QAM     | Inner_Full          | 108@54 | 1745.0             | 349000        | 22.03                       |
| 15             | 40          | DFT-s-OFDM 64QAM     | Inner_Full          | 108@54 | 1745.0             | 349000        | 20.70                       |
| 15             | 40          | DFT-s-OFDM 256QAM    | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.71                       |
| 15             | 40          | CP-OFDM QPSK         | Inner_Full          | 108@54 | 1745.0             | 349000        | 21.50                       |
| 15             | 40          | CP-OFDM 16QAM        | Inner_Full          | 108@54 | 1745.0             | 349000        | 21.06                       |
| 15             | 40          | CP-OFDM 64QAM        | Inner_Full          | 108@54 | 1745.0             | 349000        | 19.67                       |
| 15             | 40          | CP-OFDM 256QAM       | Inner_Full          | 108@54 | 1745.0             | 349000        | 16.53                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@214  | 1745.0             | 349000        | 21.97                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 1745.0             | 349000        | 21.94                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@214  | 1745.0             | 349000        | 22.90                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 1745.0             | 349000        | 22.97                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Outer_Full          | 216@0  | 1745.0             | 349000        | 22.02                       |
| 15             | 10          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 1745.0             | 349000        | 22.86                       |
| 15             | 15          | DFT-s-OFDM QPSK      | Inner_Full          | 36@18  | 1745.0             | 349000        | 23.02                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 1745.0             | 349000        | 23.01                       |
| 15             | 30          | DFT-s-OFDM QPSK      | Inner_Full          | 80@40  | 1745.0             | 349000        | 22.97                       |

| Power Level B2 |             |                      |                     |        |                    |               |                             |
|----------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n66         |             |                      |                     |        |                    | Tune up: 18.5 |                             |
| SCS<br>(kHz)   | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1777.5             | 355500        | 17.01                       |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1745.0             | 349000        | 17.10                       |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1712.5             | 342500        | 17.02                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1760.0             | 352000        | 17.09                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1745.0             | 349000        | 17.11                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1730.0             | 346000        | 17.07                       |
| 15             | 40          | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 108@54 | 1745.0             | 349000        | 17.05                       |
| 15             | 40          | DFT-s-OFDM 16QAM     | Inner_Full          | 108@54 | 1745.0             | 349000        | 17.04                       |
| 15             | 40          | DFT-s-OFDM 64QAM     | Inner_Full          | 108@54 | 1745.0             | 349000        | 17.03                       |
| 15             | 40          | DFT-s-OFDM 256QAM    | Inner_Full          | 108@54 | 1745.0             | 349000        | 17.00                       |
| 15             | 40          | CP-OFDM QPSK         | Inner_Full          | 108@54 | 1745.0             | 349000        | 17.00                       |
| 15             | 40          | CP-OFDM 16QAM        | Inner_Full          | 108@54 | 1745.0             | 349000        | 16.97                       |
| 15             | 40          | CP-OFDM 64QAM        | Inner_Full          | 108@54 | 1745.0             | 349000        | 17.01                       |
| 15             | 40          | CP-OFDM 256QAM       | Inner_Full          | 108@54 | 1745.0             | 349000        | 16.51                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@214  | 1745.0             | 349000        | 16.47                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 1745.0             | 349000        | 16.46                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@214  | 1745.0             | 349000        | 16.42                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 1745.0             | 349000        | 16.46                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Outer_Full          | 216@0  | 1745.0             | 349000        | 16.94                       |
| 15             | 10          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 1745.0             | 349000        | 16.89                       |
| 15             | 15          | DFT-s-OFDM QPSK      | Inner_Full          | 36@18  | 1745.0             | 349000        | 17.05                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 1745.0             | 349000        | 17.04                       |
| 15             | 30          | DFT-s-OFDM QPSK      | Inner_Full          | 80@40  | 1745.0             | 349000        | 17.00                       |

| Power Level C2 |             |                      |                     |        |                    |               |                             |
|----------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n66         |             |                      |                     |        |                    | Tune up: 20.0 |                             |
| SCS<br>(kHz)   | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1777.5             | 355500        | 18.51                       |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1745.0             | 349000        | 18.60                       |
| 15             | 5           | DFT-s-OFDM QPSK      | Inner_Full          | 12@6   | 1712.5             | 342500        | 18.56                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1760.0             | 352000        | 18.55                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.62                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 1730.0             | 346000        | 18.56                       |
| 15             | 40          | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.52                       |
| 15             | 40          | DFT-s-OFDM 16QAM     | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.56                       |
| 15             | 40          | DFT-s-OFDM 64QAM     | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.56                       |
| 15             | 40          | DFT-s-OFDM 256QAM    | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.52                       |
| 15             | 40          | CP-OFDM QPSK         | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.51                       |
| 15             | 40          | CP-OFDM 16QAM        | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.52                       |
| 15             | 40          | CP-OFDM 64QAM        | Inner_Full          | 108@54 | 1745.0             | 349000        | 18.52                       |
| 15             | 40          | CP-OFDM 256QAM       | Inner_Full          | 108@54 | 1745.0             | 349000        | 16.51                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@214  | 1745.0             | 349000        | 17.98                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 1745.0             | 349000        | 18.02                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@214  | 1745.0             | 349000        | 17.89                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 1745.0             | 349000        | 17.95                       |
| 15             | 40          | DFT-s-OFDM QPSK      | Outer_Full          | 216@0  | 1745.0             | 349000        | 18.48                       |
| 15             | 10          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 1745.0             | 349000        | 18.39                       |
| 15             | 15          | DFT-s-OFDM QPSK      | Inner_Full          | 36@18  | 1745.0             | 349000        | 18.54                       |
| 15             | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 1745.0             | 349000        | 18.54                       |
| 15             | 30          | DFT-s-OFDM QPSK      | Inner_Full          | 80@40  | 1745.0             | 349000        | 18.49                       |

| Ant.6 - Power Level A2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 16.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 14.94                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 14.91                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 14.94                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 15.11                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 14.97                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 14.95                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 14.99                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 14.93                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 14.90                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 14.92                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 14.59                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 14.94                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 14.65                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 14.76                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 14.88                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 14.85                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 14.96                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 14.86                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 14.85                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 14.88                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 14.98                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 14.86                       |

| Ant.6 - Power Level B2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 19.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 18.51                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 18.54                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 18.48                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 18.56                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 18.53                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 18.51                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 18.55                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 18.52                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 18.55                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 18.50                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 18.19                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 18.51                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 18.26                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 18.37                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 18.45                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 18.42                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 18.42                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 18.43                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 18.46                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 18.49                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 18.55                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 18.43                       |

| Ant.6 - Power Level C2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 21.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 19.94                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 19.99                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 19.89                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 20.03                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 19.99                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 19.93                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 19.97                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 19.95                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 19.98                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 19.97                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 19.99                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 19.48                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 19.23                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 19.34                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 19.42                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 19.39                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 19.95                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 19.90                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 19.93                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 19.86                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 19.92                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 19.86                       |

| Ant.4 - Power Level A2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 23.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 22.38                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 22.51                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 22.43                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.54                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.45                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.46                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.48                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.74                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 22.46                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 22.48                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 22.06                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 19.93                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 22.44                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 22.28                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 22.42                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 21.85                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 22.46                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 22.42                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 22.45                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 22.47                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 22.45                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 22.44                       |

| Ant.4 - Power Level B2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 22.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 21.28                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 21.48                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 21.38                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.52                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.45                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.46                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.51                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.49                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 21.46                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 21.47                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 21.21                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 19.96                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 21.41                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 21.04                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 21.38                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 21.08                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 21.40                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 21.36                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 21.42                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 21.40                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 21.43                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 21.41                       |



| Ant.4 - Power Level C2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 24.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 23.48                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 23.53                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 23.47                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.55                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.45                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.46                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.45                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.98                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 23.45                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 23.49                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 22.90                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 19.89                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 23.47                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 23.52                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 23.46                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 22.62                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 23.51                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 23.48                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 23.47                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 23.54                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 23.47                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 23.46                       |

| Ant.3 - Power Level A2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 27.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 25.05                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 25.05                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 25.01                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 25.26                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 25.14                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 24.01                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 24.55                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.57                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 25.06                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 25.14                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 23.53                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 20.54                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 24.77                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 24.77                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 24.87                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 24.88                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 24.87                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 24.65                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 24.68                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 24.65                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 24.93                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 24.75                       |

| Ant.3 - Power Level B2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 23.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 22.02                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 22.07                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 22.13                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.27                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.20                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.22                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.24                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.62                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 22.25                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 22.24                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 22.23                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 21.71                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 21.92                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 21.94                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 22.03                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 21.86                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 22.03                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 21.94                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 21.89                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 22.03                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 21.92                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 21.98                       |

| Ant.3 - Power Level C2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 25.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 24.25                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 24.25                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 24.21                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 24.35                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 24.34                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.21                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.75                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 21.77                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 24.26                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 24.34                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 22.73                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 19.74                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 23.97                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 23.97                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 24.07                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 24.08                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 24.07                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 23.85                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 23.88                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 23.85                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 24.13                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 23.95                       |

| Ant.2 - Power Level A2/B2 |             |                      |                     |        |                    |               |                             |
|---------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q       |             |                      |                     |        |                    | Tune up: 21.5 |                             |
| SCS<br>(kHz)              | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                        | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 20.53                       |
| 30                        | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 20.64                       |
| 30                        | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 20.61                       |
| 30                        | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 20.78                       |
| 30                        | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 20.77                       |
| 30                        | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 20.67                       |
| 30                        | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 20.77                       |
| 30                        | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 20.74                       |
| 30                        | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 20.74                       |
| 30                        | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 20.73                       |
| 30                        | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 20.73                       |
| 30                        | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 20.25                       |
| 30                        | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 20.35                       |
| 30                        | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 19.93                       |
| 30                        | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 20.32                       |
| 30                        | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 19.92                       |
| 30                        | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 20.64                       |
| 30                        | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 20.72                       |
| 30                        | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 20.62                       |
| 30                        | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 20.72                       |
| 30                        | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 20.72                       |
| 30                        | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 20.75                       |

| Ant.2 - Power Level C2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 27Q    |             |                      |                     |        |                    | Tune up: 24.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3540.00            | 636000        | 23.53                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3500.01            | 633334        | 23.65                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3460.02            | 630668        | 23.68                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.74                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.57                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.67                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3500.01            | 633334        | 23.71                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3500.01            | 633334        | 22.03                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3500.01            | 633334        | 23.71                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 23.61                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3500.01            | 633334        | 23.22                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3500.01            | 633334        | 20.24                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3500.01            | 633334        | 23.35                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3500.01            | 633334        | 22.83                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3500.01            | 633334        | 23.23                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3500.01            | 633334        | 22.80                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3500.01            | 633334        | 23.56                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3500.01            | 633334        | 23.61                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3500.01            | 633334        | 23.66                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3500.01            | 633334        | 23.62                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3500.01            | 633334        | 23.63                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3500.01            | 633334        | 23.66                       |

| Ant.6 - Power Level A2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 15.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 14.36                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 14.38                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 14.34                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 14.33                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 14.46                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 14.36                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 14.39                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 14.36                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 14.33                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 14.27                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 14.28                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 14.31                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 14.31                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 14.29                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 13.97                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 13.87                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 13.99                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 13.59                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 14.21                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 14.03                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 14.20                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 14.14                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 14.23                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 14.27                       |

| Ant.6 - Power Level B2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 19.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 18.48                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 18.55                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 18.47                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 18.62                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.63                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 18.59                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.51                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.53                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.46                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.56                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.45                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.54                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.43                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.46                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 18.00                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 17.66                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 18.06                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 17.69                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 18.33                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 18.32                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 18.37                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 18.37                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 18.35                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 18.42                       |



| Ant.6 - Power Level C2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 20.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 19.95                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 19.91                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 19.93                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 20.08                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 20.11                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 20.04                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.92                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.89                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.87                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.92                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.83                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.89                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.84                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.82                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 19.41                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 19.02                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 19.39                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 18.99                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 19.74                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 19.68                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 19.75                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 19.72                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 19.76                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 19.80                       |

| Ant.4 - Power Level A2/B2/C2 |             |                      |                     |        |                    |               |                             |
|------------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270          |             |                      |                     |        |                    | Tune up: 24.5 |                             |
| SCS<br>(kHz)                 | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                           | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 23.17                       |
| 30                           | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 23.24                       |
| 30                           | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 23.15                       |
| 30                           | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 23.54                       |
| 30                           | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 23.58                       |
| 30                           | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 23.49                       |
| 30                           | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 23.39                       |
| 30                           | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 23.45                       |
| 30                           | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 23.41                       |
| 30                           | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 22.05                       |
| 30                           | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 23.49                       |
| 30                           | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 23.35                       |
| 30                           | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 21.02                       |
| 30                           | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.95                       |
| 30                           | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 22.02                       |
| 30                           | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 23.42                       |
| 30                           | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 23.41                       |
| 30                           | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 23.36                       |
| 30                           | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 23.24                       |
| 30                           | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 23.53                       |
| 30                           | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 23.54                       |
| 30                           | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 23.46                       |
| 30                           | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 23.53                       |
| 30                           | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 23.55                       |

| Ant.3 - Power Level A2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 26.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 24.70                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 24.80                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 24.74                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 24.93                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 24.99                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 24.94                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 24.91                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 24.65                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 23.19                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 21.18                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 24.15                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 23.70                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 22.17                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.24                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 23.87                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 24.02                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 24.90                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 24.73                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 24.50                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 24.81                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 24.83                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 24.91                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 24.88                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 24.91                       |

| Ant.3 - Power Level B2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 21.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 20.22                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 20.09                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 20.24                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 20.21                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 20.54                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 20.40                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 20.29                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 20.37                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 20.38                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 20.30                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 20.03                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.87                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 20.07                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.88                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 20.04                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 19.91                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 19.87                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 19.95                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 19.97                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 20.26                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 20.11                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 20.21                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 20.18                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 20.06                       |

| Ant.3 - Power Level C2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 23.5 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 22.17                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 22.27                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 22.21                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 22.40                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 22.46                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 22.41                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 22.38                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 22.12                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 21.66                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 21.00                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 21.62                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 21.66                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 22.24                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.89                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 21.34                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 21.49                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 22.37                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 22.20                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 21.97                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 22.28                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 22.30                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 22.38                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 22.35                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 22.38                       |

| Ant.2 - Power Level A2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 20.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 18.75                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 18.62                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 18.63                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 18.69                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.89                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 18.74                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.74                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.75                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.65                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 18.86                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.79                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.62                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.61                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 18.82                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 18.04                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 18.14                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 18.04                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 18.13                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 18.75                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 18.72                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 18.60                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 18.70                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 18.64                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 18.69                       |

| Ant.2 - Power Level B2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 18.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 16.93                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 16.80                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 16.81                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 16.87                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 17.07                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 16.92                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 16.82                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 16.83                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 16.73                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 16.94                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 16.87                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 16.70                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 16.80                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 16.90                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 16.72                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 16.82                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 16.72                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 16.81                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 16.83                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 16.80                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 16.68                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 16.78                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 16.72                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 16.77                       |

| Ant.2 - Power Level C2 |             |                      |                     |        |                    |               |                             |
|------------------------|-------------|----------------------|---------------------|--------|--------------------|---------------|-----------------------------|
| NR n77 PC2 Part 270    |             |                      |                     |        |                    | Tune up: 21.0 |                             |
| SCS<br>(kHz)           | BW<br>(MHz) | Modulation           | RB allocation       |        | Frequency<br>(MHz) | Channel       | Conducted<br>Power<br>(dBm) |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3970.02            | 664668        | 19.86                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3840.00            | 656000        | 19.79                       |
| 30                     | 20          | DFT-s-OFDM QPSK      | Inner_Full          | 25@12  | 3710.01            | 647334        | 19.87                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3930.00            | 662000        | 19.91                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.99                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_Full          | 135@67 | 3750.00            | 650000        | 19.78                       |
| 30                     | 100         | DFT-s-OFDM PI/2 BPSK | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.91                       |
| 30                     | 100         | DFT-s-OFDM 16QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.91                       |
| 30                     | 100         | DFT-s-OFDM 64QAM     | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.92                       |
| 30                     | 100         | DFT-s-OFDM 256QAM    | Inner_Full          | 135@67 | 3840.00            | 656000        | 19.91                       |
| 30                     | 100         | CP-OFDM QPSK         | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.84                       |
| 30                     | 100         | CP-OFDM 16QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.88                       |
| 30                     | 100         | CP-OFDM 64QAM        | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.87                       |
| 30                     | 100         | CP-OFDM 256QAM       | Inner_Full          | 137@68 | 3840.00            | 656000        | 19.33                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Right | 2@271  | 3840.00            | 656000        | 18.93                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Edge_Full<br>_Left  | 2@0    | 3840.00            | 656000        | 19.19                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Right | 1@271  | 3840.00            | 656000        | 19.04                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Inner_1RB<br>_Left  | 1@1    | 3840.00            | 656000        | 19.11                       |
| 30                     | 100         | DFT-s-OFDM QPSK      | Outer_Full          | 270@0  | 3840.00            | 656000        | 19.76                       |
| 30                     | 40          | DFT-s-OFDM QPSK      | Inner_Full          | 50@25  | 3840.00            | 656000        | 19.85                       |
| 30                     | 50          | DFT-s-OFDM QPSK      | Inner_Full          | 64@32  | 3840.00            | 656000        | 19.75                       |
| 30                     | 60          | DFT-s-OFDM QPSK      | Inner_Full          | 81@40  | 3840.00            | 656000        | 19.85                       |
| 30                     | 80          | DFT-s-OFDM QPSK      | Inner_Full          | 108@54 | 3840.00            | 656000        | 19.75                       |
| 30                     | 90          | DFT-s-OFDM QPSK      | Inner_Full          | 120@60 | 3840.00            | 656000        | 19.83                       |



## 10.4. Bluetooth and WLAN Measurement result

**Table 10.5: The conducted Power measurement results for Bluetooth**

| Averaged Power (dBm) |         |                |                 |                 |
|----------------------|---------|----------------|-----------------|-----------------|
| Mode                 | Tune up | Ch.0 (2402MHz) | Ch.39 (2441MHz) | Ch.78 (2480MHz) |
| GFSK                 | 12.0    | 10.94          | 10.67           | 9.21            |
| EDR2M-4_DQPSK        | 11.0    | 9.97           | 9.72            | 8.98            |
| EDR3M-8DPSK          | 11.0    | 9.80           | 9.57            | 8.83            |
| /                    | /       | Ch.0 (2402MHz) | Ch.19 (2440MHz) | Ch.39 (2480MHz) |
| BLE(1M)              | -1.0    | -2.48          | -1.90           | -3.40           |
| BLE(2M)              | -1.0    | -2.68          | -2.08           | -3.53           |

**Table 10.6: The conducted Power measurement results for WLAN 2.4GHz**

| Power Level D1                        |         |                |                |                 |
|---------------------------------------|---------|----------------|----------------|-----------------|
| Averaged Power (dBm) Duty Cycle: 100% |         |                |                |                 |
| Mode                                  | Tune up | Ch.1 (2412MHz) | Ch.6 (2437MHz) | Ch.11 (2462MHz) |
| 802.11b                               | 18.0    | 17.81          | 17.40          | 17.28           |
| 802.11g                               | 18.0    | 17.74          | 17.42          | 17.29           |
| 802.11n(20MHz)                        | 18.0    | 17.68          | 17.38          | 17.24           |
| Power Level E1/F1/E2/F2               |         |                |                |                 |
| Averaged Power (dBm) Duty Cycle: 100% |         |                |                |                 |
| Mode                                  | Tune up | Ch.1 (2412MHz) | Ch.6 (2437MHz) | Ch.11 (2462MHz) |
| 802.11b                               | 20.0    | 19.75          | 19.34          | 19.22           |
| 802.11g                               | 18.5    | 18.18          | 17.86          | 17.73           |
| 802.11n(20MHz)                        | 18.5    | 18.12          | 17.82          | 17.68           |
| Power Level D2                        |         |                |                |                 |
| Averaged Power (dBm) Duty Cycle: 100% |         |                |                |                 |
| Mode                                  | Tune up | Ch.1 (2412MHz) | Ch.6 (2437MHz) | Ch.11 (2462MHz) |
| 802.11b                               | 12.0    | 11.82          | 11.41          | 11.29           |
| 802.11g                               | 12.0    | 11.78          | 11.46          | 11.33           |
| 802.11n(20MHz)                        | 12.0    | 11.72          | 11.42          | 11.28           |

**Table 10.7: The conducted Power measurement results for WLAN 5GHz**

| <b>Power Level D1/E1/F1</b>                  |              |                   |                    |              |                   |                    |              |                    |
|----------------------------------------------|--------------|-------------------|--------------------|--------------|-------------------|--------------------|--------------|--------------------|
| Averaged Power (dBm) Duty Cycle: <b>100%</b> |              |                   |                    |              |                   |                    |              |                    |
| Mode                                         | 802.11a      | 802.11n<br>-20MHz | 802.11ac<br>-20MHz | Mode         | 802.11n<br>-40MHz | 802.11ac<br>-40MHz | Mode         | 802.11ac<br>-80MHz |
| Channel                                      | 6Mbps        | MCS0              | MCS0               | Channel      | MCS0              | MCS0               | Channel      | MCS0               |
| <U-NII-1>                                    |              |                   |                    |              |                   |                    |              |                    |
| <b>Tune up</b>                               | <b>18.5</b>  | <b>18.5</b>       | <b>17.0</b>        | /            | <b>18.0</b>       | <b>17.0</b>        | /            | <b>17.0</b>        |
| 36(5180MHz)                                  | 18.13        | 18.06             | 16.61              | 38(5190MHz)  | 17.65             | 16.78              | 42(5210MHz)  | 16.27              |
| 40(5200MHz)                                  | <b>18.17</b> | 18.09             | 16.66              | 46(5230MHz)  | 17.67             | 16.81              | /            | /                  |
| 44(5220MHz)                                  | 18.14        | 18.07             | 16.64              | /            | /                 | /                  | /            | /                  |
| 48(5240MHz)                                  | 18.12        | 18.03             | 16.62              | /            | /                 | /                  | /            | /                  |
| <U-NII-2A>                                   |              |                   |                    |              |                   |                    |              |                    |
| <b>Tune up</b>                               | <b>18.5</b>  | <b>18.5</b>       | <b>17.0</b>        | /            | <b>18.0</b>       | <b>17.0</b>        | /            | <b>17.0</b>        |
| 52(5260MHz)                                  | 18.08        | 18.02             | 16.61              | 54(5270MHz)  | 17.62             | 16.76              | 58(5290MHz)  | 16.25              |
| 56(5280MHz)                                  | 18.11        | 18.03             | 16.65              | 62(5310MHz)  | 17.63             | 16.77              | /            | /                  |
| 60(5300MHz)                                  | <b>18.14</b> | 18.06             | 16.62              | /            | /                 | /                  | /            | /                  |
| 64(5320MHz)                                  | 18.07        | 17.95             | 16.58              | /            | /                 | /                  | /            | /                  |
| <U-NII-2C>                                   |              |                   |                    |              |                   |                    |              |                    |
| <b>Tune up</b>                               | <b>18.5</b>  | <b>18.5</b>       | <b>17.0</b>        | /            | <b>18.0</b>       | <b>17.0</b>        | /            | <b>17.0</b>        |
| 100(5500MHz)                                 | 18.04        | 17.97             | 16.47              | 102(5510MHz) | 16.41             | 16.57              | 106(5530MHz) | 16.03              |
| 116(5580MHz)                                 | 18.06        | 17.96             | 16.49              | 110(5550MHz) | 17.54             | 16.66              | 122(5610MHz) | 16.15              |
| 124(5620MHz)                                 | 18.18        | 18.04             | 16.55              | 126(5630MHz) | 17.68             | 16.72              | 138(5690MHz) | 16.13              |
| 132(5660MHz)                                 | 18.23        | 18.14             | 16.67              | 134(5670MHz) | 17.83             | 16.64              | /            | /                  |
| 140(5700MHz)                                 | 13.63        | 13.52             | 16.77              | 142(5710MHz) | 17.91             | 16.55              | /            | /                  |
| 144(5720MHz)                                 | <b>18.39</b> | 18.26             | 16.75              | /            | /                 | /                  | /            | /                  |
| <U-NII-3>                                    |              |                   |                    |              |                   |                    |              |                    |
| <b>Tune up</b>                               | <b>18.5</b>  | <b>18.5</b>       | <b>17.0</b>        | /            | <b>18.0</b>       | <b>17.0</b>        | /            | <b>17.0</b>        |
| 149(5745MHz)                                 | 18.03        | 17.91             | 16.38              | 151(5755MHz) | 17.60             | 16.17              | 155(5775MHz) | 16.07              |
| 157(5785MHz)                                 | 18.07        | 17.97             | 16.45              | 159(5795MHz) | 17.65             | 16.21              | /            | /                  |
| 165(5825MHz)                                 | <b>18.11</b> | 18.02             | 16.51              | /            | /                 | /                  | /            | /                  |

| Power Level D2                        |         |                   |                    |              |                   |                    |              |                    |
|---------------------------------------|---------|-------------------|--------------------|--------------|-------------------|--------------------|--------------|--------------------|
| Averaged Power (dBm) Duty Cycle: 100% |         |                   |                    |              |                   |                    |              |                    |
| Mode                                  | 802.11a | 802.11n<br>-20MHz | 802.11ac<br>-20MHz | Mode         | 802.11n<br>-40MHz | 802.11ac<br>-40MHz | Mode         | 802.11ac<br>-80MHz |
| Channel                               | 6Mbps   | MCS0              | MCS0               | Channel      | MCS0              | MCS0               | Channel      | MCS0               |
| <U-NII-1>                             |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 15.5    | 15.5              | 15.5               | /            | 15.4              | 15.4               | /            | 15.4               |
| 36(5180MHz)                           | 15.06   | 14.99             | 14.94              | 38(5190MHz)  | 14.58             | 15.11              | 42(5210MHz)  | 14.81              |
| 40(5200MHz)                           | 15.10   | 15.02             | 14.99              | 46(5230MHz)  | 14.60             | 15.14              | /            | /                  |
| 44(5220MHz)                           | 15.07   | 15.00             | 14.97              | /            | /                 | /                  | /            | /                  |
| 48(5240MHz)                           | 15.05   | 14.96             | 14.95              | /            | /                 | /                  | /            | /                  |
| <U-NII-2A>                            |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 15.5    | 15.5              | 15.5               | /            | 15.4              | 15.4               | /            | 15.4               |
| 52(5260MHz)                           | 15.01   | 14.95             | 14.94              | 54(5270MHz)  | 14.55             | 15.09              | 58(5290MHz)  | 14.79              |
| 56(5280MHz)                           | 15.04   | 14.96             | 14.98              | 62(5310MHz)  | 14.56             | 15.10              | /            | /                  |
| 60(5300MHz)                           | 15.07   | 14.99             | 14.95              | /            | /                 | /                  | /            | /                  |
| 64(5320MHz)                           | 15.00   | 14.88             | 14.91              | /            | /                 | /                  | /            | /                  |
| <U-NII-2C>                            |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 15.5    | 15.5              | 15.5               | /            | 15.4              | 15.4               | /            | 15.4               |
| 100(5500MHz)                          | 14.97   | 14.90             | 14.80              | 102(5510MHz) | 14.44             | 14.90              | 106(5530MHz) | 14.57              |
| 116(5580MHz)                          | 14.99   | 14.89             | 14.82              | 110(5550MHz) | 14.47             | 14.99              | 122(5610MHz) | 14.69              |
| 124(5620MHz)                          | 15.11   | 14.97             | 14.88              | 126(5630MHz) | 14.61             | 15.05              | 138(5690MHz) | 14.67              |
| 132(5660MHz)                          | 15.16   | 15.07             | 15.00              | 134(5670MHz) | 14.76             | 14.97              | /            | /                  |
| 140(5700MHz)                          | 13.63   | 13.52             | 15.10              | 142(5710MHz) | 14.84             | 14.88              | /            | /                  |
| 144(5720MHz)                          | 15.32   | 15.19             | 15.08              | /            | /                 | /                  | /            | /                  |
| <U-NII-3>                             |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 15.5    | 15.5              | 15.5               | /            | 15.4              | 15.4               | /            | 15.4               |
| 149(5745MHz)                          | 14.96   | 14.84             | 14.71              | 151(5755MHz) | 14.53             | 14.50              | 155(5775MHz) | 14.61              |
| 157(5785MHz)                          | 15.00   | 14.90             | 14.78              | 159(5795MHz) | 14.58             | 14.54              | /            | /                  |
| 165(5825MHz)                          | 15.04   | 14.95             | 14.84              | /            | /                 | /                  | /            | /                  |



| Power Level E2                        |         |                   |                    |              |                   |                    |              |                    |
|---------------------------------------|---------|-------------------|--------------------|--------------|-------------------|--------------------|--------------|--------------------|
| Averaged Power (dBm) Duty Cycle: 100% |         |                   |                    |              |                   |                    |              |                    |
| Mode                                  | 802.11a | 802.11n<br>-20MHz | 802.11ac<br>-20MHz | Mode         | 802.11n<br>-40MHz | 802.11ac<br>-40MHz | Mode         | 802.11ac<br>-80MHz |
| Channel                               | 6Mbps   | MCS0              | MCS0               | Channel      | MCS0              | MCS0               | Channel      | MCS0               |
| <U-NII-1>                             |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 13.0    | 13.0              | 13.0               | /            | 12.9              | 12.9               | /            | 12.9               |
| 36(5180MHz)                           | 12.39   | 12.32             | 12.32              | 38(5190MHz)  | 11.91             | 12.49              | 42(5210MHz)  | 12.16              |
| 40(5200MHz)                           | 12.43   | 12.35             | 12.37              | 46(5230MHz)  | 11.93             | 12.52              | /            | /                  |
| 44(5220MHz)                           | 12.40   | 12.33             | 12.35              | /            | /                 | /                  | /            | /                  |
| 48(5240MHz)                           | 12.38   | 12.29             | 12.33              | /            | /                 | /                  | /            | /                  |
| <U-NII-3>                             |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 14.5    | 14.5              | 14.5               | /            | 14.4              | 14.4               | /            | 14.4               |
| 149(5745MHz)                          | 13.91   | 13.79             | 13.72              | 151(5755MHz) | 13.48             | 13.51              | 155(5775MHz) | 13.57              |
| 157(5785MHz)                          | 13.95   | 13.85             | 13.79              | 159(5795MHz) | 13.53             | 13.55              | /            | /                  |
| 165(5825MHz)                          | 13.99   | 13.90             | 13.85              | /            | /                 | /                  | /            | /                  |

| Power Level F2                        |         |                   |                    |              |                   |                    |              |                    |
|---------------------------------------|---------|-------------------|--------------------|--------------|-------------------|--------------------|--------------|--------------------|
| Averaged Power (dBm) Duty Cycle: 100% |         |                   |                    |              |                   |                    |              |                    |
| Mode                                  | 802.11a | 802.11n<br>-20MHz | 802.11ac<br>-20MHz | Mode         | 802.11n<br>-40MHz | 802.11ac<br>-40MHz | Mode         | 802.11ac<br>-80MHz |
| Channel                               | 6Mbps   | MCS0              | MCS0               | Channel      | MCS0              | MCS0               | Channel      | MCS0               |
| <U-NII-1>                             |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 16.5    | 16.5              | 16.5               | /            | 16.4              | 16.4               | /            | 16.4               |
| 36(5180MHz)                           | 16.01   | 15.94             | 15.95              | 38(5190MHz)  | 15.53             | 16.12              | 42(5210MHz)  | 15.77              |
| 40(5200MHz)                           | 16.05   | 15.97             | 16.00              | 46(5230MHz)  | 15.55             | 16.15              | /            | /                  |
| 44(5220MHz)                           | 16.02   | 15.95             | 15.98              | /            | /                 | /                  | /            | /                  |
| 48(5240MHz)                           | 16.00   | 15.91             | 15.96              | /            | /                 | /                  | /            | /                  |
| <U-NII-2A>                            |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 16.5    | 16.5              | 16.5               | /            | 16.4              | 16.4               | /            | 16.4               |
| 52(5260MHz)                           | 15.96   | 15.90             | 15.95              | 54(5270MHz)  | 15.50             | 16.10              | 58(5290MHz)  | 15.75              |
| 56(5280MHz)                           | 15.99   | 15.91             | 15.99              | 62(5310MHz)  | 15.51             | 16.11              | /            | /                  |
| 60(5300MHz)                           | 16.02   | 15.94             | 15.96              | /            | /                 | /                  | /            | /                  |
| 64(5320MHz)                           | 15.95   | 15.83             | 15.92              | /            | /                 | /                  | /            | /                  |
| <U-NII-2C>                            |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 16.5    | 16.5              | 16.5               | /            | 16.4              | 16.4               | /            | 16.4               |
| 100(5500MHz)                          | 15.92   | 15.85             | 15.81              | 102(5510MHz) | 15.39             | 15.91              | 106(5530MHz) | 15.53              |
| 116(5580MHz)                          | 15.94   | 15.84             | 15.83              | 110(5550MHz) | 15.42             | 16.00              | 122(5610MHz) | 15.65              |
| 124(5620MHz)                          | 16.06   | 15.92             | 15.89              | 126(5630MHz) | 15.56             | 16.06              | 138(5690MHz) | 15.63              |
| 132(5660MHz)                          | 16.11   | 16.02             | 16.01              | 134(5670MHz) | 15.71             | 15.98              | /            | /                  |
| 140(5700MHz)                          | 13.63   | 13.52             | 16.11              | 142(5710MHz) | 15.79             | 15.89              | /            | /                  |
| 144(5720MHz)                          | 16.27   | 16.14             | 16.09              | /            | /                 | /                  | /            | /                  |
| <U-NII-3>                             |         |                   |                    |              |                   |                    |              |                    |
| Tune up                               | 16.5    | 16.5              | 16.5               | /            | 16.4              | 16.4               | /            | 16.4               |
| 149(5745MHz)                          | 15.91   | 15.79             | 15.72              | 151(5755MHz) | 15.48             | 15.51              | 155(5775MHz) | 15.57              |
| 157(5785MHz)                          | 15.95   | 15.85             | 15.79              | 159(5795MHz) | 15.53             | 15.55              | /            | /                  |
| 165(5825MHz)                          | 15.99   | 15.90             | 15.85              | /            | /                 | /                  | /            | /                  |

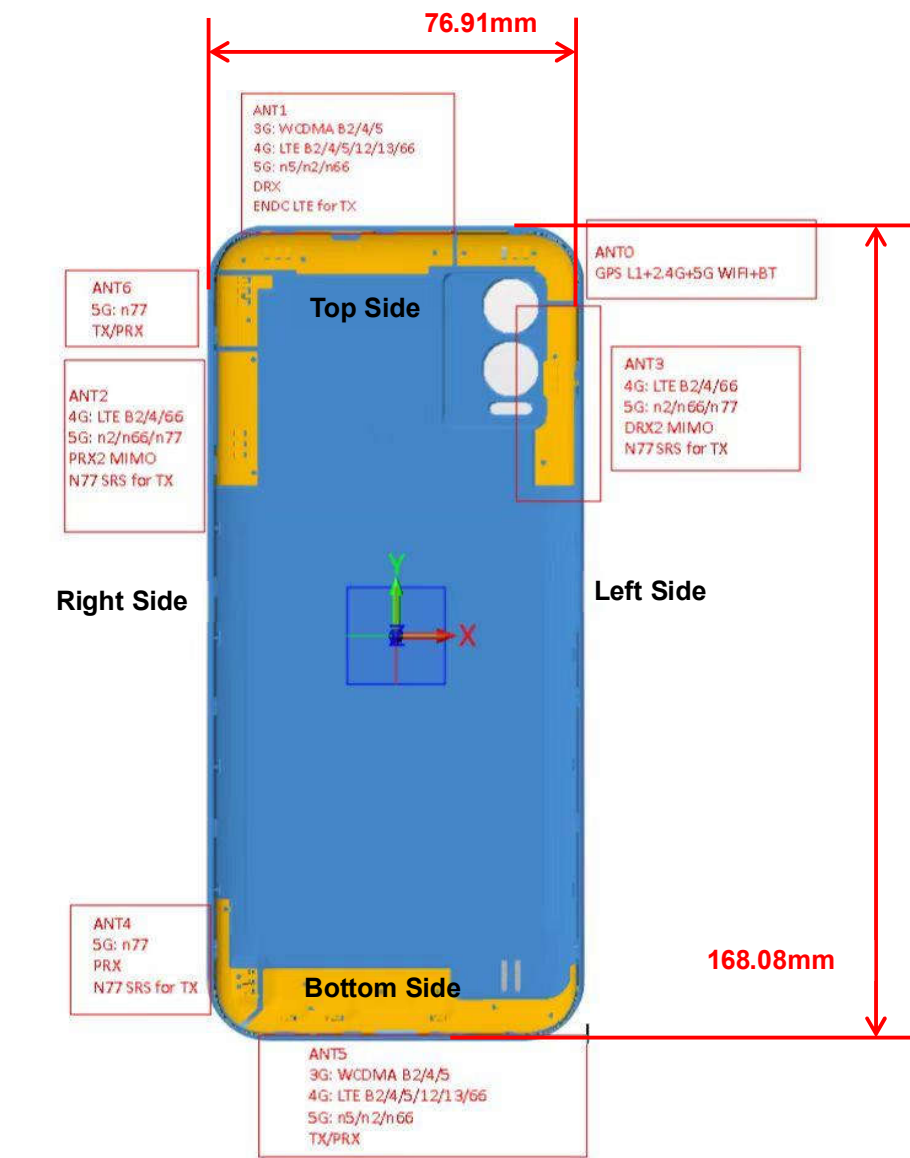
## 11. Simultaneous TX SAR Considerations

### 11.1. Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

For this device, the Bluetooth and WLAN can transmit simultaneous with other transmitters.

### 11.2. Transmit Antenna Separation Distances



Picture 11.1 Antenna Locations (Back View)

**Note:**

| Antenna | Frequency Bands                               |
|---------|-----------------------------------------------|
| Ant.0   | GPS L1/Bluetooth/WLAN 2.4GHz/WLAN 5GHz TX     |
| Ant.1   | UL CA & ENDC: LTE Band 2/4/5/13/66 TX         |
| Ant.2   | SRS: NR n77 TX                                |
| Ant.3   | SRS: NR n77 TX                                |
| Ant.4   | SRS: NR n77 TX                                |
| Ant.5   | WCDMA Band 2/4/5/12/13/66 TX, NR n2/n5/n66 TX |
| Ant.6   | NR n77 TX                                     |

**UL CA list:**

| Band       | LTE TX Band | LTE TX Ant. | LTE TX Band | LTE TX Ant. |
|------------|-------------|-------------|-------------|-------------|
| CA_4A-13A  | Band 4      | Ant.1       | Band 13     | Ant.5       |
| CA_2A-13A  | Band 2      | Ant.1       | Band 13     | Ant.5       |
| CA_13A-66A | Band 13     | Ant.1       | Band 66     | Ant.5       |
| CA_2A-5A   | Band 2      | Ant.1       | Band 5      | Ant.5       |
| CA_5A-66A  | Band 5      | Ant.1       | Band 66     | Ant.5       |
| CA_5B      | Band 5      | Ant.5       | Band 5      | Ant.5       |
| CA_66B     | Band 66     | Ant.5       | Band 66     | Ant.5       |
| CA_66C     | Band 66     | Ant.5       | Band 66     | Ant.5       |

**ENDC UL Bands list:**

| Band        | LTE TX Band | LTE TX Ant. | NR TX Band | NR TX Ant. |
|-------------|-------------|-------------|------------|------------|
| DC_13A_n2A  | Band 13     | Ant.1       | n2         | Ant.5      |
| DC_2A_n2A   | Band 2      | Ant.1       | n2         | Ant.5      |
| DC_5A_n2A   | Band 5      | Ant.1       | n2         | Ant.5      |
| DC_66A_n2A  | Band 66     | Ant.1       | n2         | Ant.5      |
| DC_2A_n5A   | Band 2      | Ant.1       | n5         | Ant.5      |
| DC_66A_n5A  | Band 66     | Ant.1       | n5         | Ant.5      |
| DC_13A_n66A | Band 13     | Ant.1       | n66        | Ant.5      |
| DC_2A_n66A  | Band 2      | Ant.1       | n66        | Ant.5      |
| DC_5A_n66A  | Band 5      | Ant.1       | n66        | Ant.5      |
| DC_66A_n66A | Band 66     | Ant.1       | n66        | Ant.5      |
| DC_2A_n77A  | Band 2      | Ant.1       | n77        | Ant.6      |
| DC_5A_n77A  | Band 5      | Ant.1       | n77        | Ant.6      |
| DC_66A_n77A | Band 66     | Ant.1       | n77        | Ant.6      |
| DC_13A_n77A | Band 13     | Ant.1       | n77        | Ant.6      |
| DC_2A_n77A  | Band 2      | Ant.1       | n77        | Ant.2      |
| DC_5A_n77A  | Band 5      | Ant.1       | n77        | Ant.2      |
| DC_66A_n77A | Band 66     | Ant.1       | n77        | Ant.2      |
| DC_13A_n77A | Band 13     | Ant.1       | n77        | Ant.2      |
| DC_2A_n77A  | Band 2      | Ant.1       | n77        | Ant.3      |
| DC_5A_n77A  | Band 5      | Ant.1       | n77        | Ant.3      |
| DC_66A_n77A | Band 66     | Ant.1       | n77        | Ant.3      |
| DC_13A_n77A | Band 13     | Ant.1       | n77        | Ant.3      |
| DC_2A_n77A  | Band 2      | Ant.1       | n77        | Ant.4      |
| DC_5A_n77A  | Band 5      | Ant.1       | n77        | Ant.4      |
| DC_66A_n77A | Band 66     | Ant.1       | n77        | Ant.4      |
| DC_13A_n77A | Band 13     | Ant.1       | n77        | Ant.4      |



### 11.3. SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 25mm distance to the antennas need to be tested for SAR.

| SAR measurement positions |       |      |           |            |          |             |
|---------------------------|-------|------|-----------|------------|----------|-------------|
| Antenna                   | Front | Rear | Left edge | Right edge | Top edge | Bottom edge |
| Ant.0                     | Yes   | Yes  | Yes       | Yes        | Yes      | No          |
| Ant.1                     | Yes   | Yes  | Yes       | Yes        | Yes      | No          |
| Ant.2                     | Yes   | Yes  | Yes       | Yes        | Yes      | No          |
| Ant.3                     | Yes   | Yes  | Yes       | Yes        | Yes      | No          |
| Ant.4                     | Yes   | Yes  | Yes       | Yes        | No       | Yes         |
| Ant.5                     | Yes   | Yes  | Yes       | Yes        | No       | Yes         |
| Ant.6                     | Yes   | Yes  | Yes       | Yes        | No       | Yes         |

## 12. Evaluation of Simultaneous

| No. | Simultaneous Transmission Configuration | Head | Body-worn | Hotspot | Extremity |
|-----|-----------------------------------------|------|-----------|---------|-----------|
| 1   | UMTS Voice + Bluetooth + WLAN 5GHz      | Yes  | Yes       | N/A     | Yes       |
| 2   | UMTS Data + Bluetooth + WLAN 5GHz       | Yes  | Yes       | Yes     | Yes       |
| 3   | UMTS Voice + WLAN 2.4GHz                | Yes  | Yes       | N/A     | Yes       |
| 4   | UMTS Data + WLAN 2.4GHz                 | Yes  | Yes       | Yes     | Yes       |
| 5   | LTE + Bluetooth + WLAN 5GHz             | Yes  | Yes       | Yes     | Yes       |
| 6   | LTE + WLAN 2.4GHz                       | Yes  | Yes       | Yes     | Yes       |
| 7   | ENDC + Bluetooth + WLAN 5GHz            | Yes  | Yes       | Yes     | Yes       |
| 8   | ENDC + WLAN 2.4GHz                      | Yes  | Yes       | Yes     | Yes       |
| 9   | CA+ Bluetooth + WLAN 5GHz               | Yes  | Yes       | Yes     | Yes       |
| 10  | CA + WLAN 2.4GHz                        | Yes  | Yes       | Yes     | Yes       |

**General note:** Per TCB workshop April 2022: RF Exposure Procedures page13, we use the sum SAR value of WLAN 5GHz and Bluetooth for SPLSR calculation.

**Table 12.1: The sum of SAR values for UL CA**

| Mode      | Position    | CA_2A-13A                    |                               |               |
|-----------|-------------|------------------------------|-------------------------------|---------------|
|           |             | LTE Band 2 - Ant.1<br>(W/kg) | LTE Band 13 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                         | 0.26                          | 0.57          |
|           | Left Tilt   | 0.37                         | 0.12                          | 0.49          |
|           | Right Cheek | 0.68                         | 0.32                          | 1.00          |
|           | Right Tilt  | 0.70                         | 0.14                          | 0.84          |
| Hotspot   | Front       | 0.47                         | 0.24                          | 0.71          |
|           | Rear        | 0.60                         | 0.36                          | 0.96          |
|           | Left        | 0.09                         | 0.17                          | 0.26          |
|           | Right       | 0.05                         | 0.26                          | 0.31          |
|           | Top         | 0.74                         | 0.00                          | 0.74          |
|           | Bottom      | 0.00                         | 0.02                          | 0.02          |
| Body-worn | Front       | 0.32                         | 0.24                          | 0.56          |
|           | Rear        | 0.41                         | 0.36                          | 0.77          |
| Mode      | Position    | CA_2A-5A                     |                               |               |
|           |             | LTE Band 2 - Ant.1<br>(W/kg) | LTE Band 5 - Ant.5<br>(W/kg)  | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                         | 0.38                          | 0.69          |
|           | Left Tilt   | 0.37                         | 0.19                          | 0.56          |
|           | Right Cheek | 0.68                         | 0.42                          | 1.10          |
|           | Right Tilt  | 0.70                         | 0.21                          | 0.91          |
| Hotspot   | Front       | 0.47                         | 0.31                          | 0.78          |
|           | Rear        | 0.60                         | 0.42                          | 1.02          |
|           | Left        | 0.09                         | 0.25                          | 0.34          |
|           | Right       | 0.05                         | 0.36                          | 0.41          |
|           | Top         | 0.74                         | 0.00                          | 0.74          |
|           | Bottom      | 0.00                         | 0.06                          | 0.06          |
| Body-worn | Front       | 0.32                         | 0.31                          | 0.63          |
|           | Rear        | 0.41                         | 0.42                          | 0.83          |

# UL CA

| Mode      | Position    | CA_4A-13A                    |                               |               |
|-----------|-------------|------------------------------|-------------------------------|---------------|
|           |             | LTE Band 4 - Ant.1<br>(W/kg) | LTE Band 13 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.39                         | 0.26                          | 0.65          |
|           | Left Tilt   | 0.44                         | 0.12                          | 0.56          |
|           | Right Cheek | 0.63                         | 0.32                          | 0.95          |
|           | Right Tilt  | 0.68                         | 0.14                          | 0.82          |
| Hotspot   | Front       | 0.56                         | 0.24                          | 0.80          |
|           | Rear        | 0.57                         | 0.36                          | 0.93          |
|           | Left        | 0.11                         | 0.17                          | 0.28          |
|           | Right       | 0.06                         | 0.26                          | 0.32          |
|           | Top         | 0.73                         | 0.00                          | 0.73          |
|           | Bottom      | 0.00                         | 0.02                          | 0.02          |
| Body-worn | Front       | 0.49                         | 0.24                          | 0.73          |
|           | Rear        | 0.46                         | 0.36                          | 0.82          |
| Mode      | Position    | CA_5A-66A                    |                               |               |
|           |             | LTE Band 5 - Ant.1<br>(W/kg) | LTE Band 66 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.45                         | 0.13                          | 0.58          |
|           | Left Tilt   | 0.39                         | 0.10                          | 0.49          |
|           | Right Cheek | 0.59                         | 0.20                          | 0.79          |
|           | Right Tilt  | 0.48                         | 0.07                          | 0.55          |
| Hotspot   | Front       | 0.16                         | 0.61                          | 0.77          |
|           | Rear        | 0.17                         | 0.66                          | 0.83          |
|           | Left        | 0.07                         | 0.05                          | 0.12          |
|           | Right       | 0.01                         | 0.12                          | 0.13          |
|           | Top         | 0.02                         | 0.00                          | 0.02          |
|           | Bottom      | 0.00                         | 0.79                          | 0.79          |
| Body-worn | Front       | 0.16                         | 0.53                          | 0.69          |
|           | Rear        | 0.17                         | 0.66                          | 0.83          |



No.I22N01500-SAR

UL CA

| Mode      | Position    | CA_13A-66A                    |                               |               |
|-----------|-------------|-------------------------------|-------------------------------|---------------|
|           |             | LTE Band 13 - Ant.1<br>(W/kg) | LTE Band 66 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.42                          | 0.13                          | 0.55          |
|           | Left Tilt   | 0.37                          | 0.10                          | 0.47          |
|           | Right Cheek | 0.52                          | 0.20                          | 0.72          |
|           | Right Tilt  | 0.41                          | 0.07                          | 0.48          |
| Hotspot   | Front       | 0.51                          | 0.61                          | 1.12          |
|           | Rear        | 0.54                          | 0.66                          | 1.20          |
|           | Left        | 0.33                          | 0.05                          | 0.38          |
|           | Right       | 0.26                          | 0.12                          | 0.38          |
|           | Top         | 0.48                          | 0.00                          | 0.48          |
|           | Bottom      | 0.00                          | 0.79                          | 0.79          |
| Body-worn | Front       | 0.31                          | 0.53                          | 0.84          |
|           | Rear        | 0.32                          | 0.66                          | 0.98          |

**Table 12.2: The sum of SAR values for ENDC**

| Mode      | Position    | DC_13A_n2A                    |                         |               |
|-----------|-------------|-------------------------------|-------------------------|---------------|
|           |             | LTE Band 13 - Ant.1<br>(W/kg) | NR n2 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.42                          | 0.11                    | 0.53          |
|           | Left Tilt   | 0.37                          | 0.10                    | 0.47          |
|           | Right Cheek | 0.52                          | 0.15                    | 0.67          |
|           | Right Tilt  | 0.41                          | 0.07                    | 0.48          |
| Hotspot   | Front       | 0.51                          | 0.38                    | 0.89          |
|           | Rear        | 0.54                          | 0.42                    | 0.96          |
|           | Left        | 0.33                          | 0.06                    | 0.39          |
|           | Right       | 0.26                          | 0.05                    | 0.31          |
|           | Top         | 0.48                          | 0.00                    | 0.48          |
|           | Bottom      | 0.00                          | 0.72                    | 0.72          |
| Body-worn | Front       | 0.31                          | 0.38                    | 0.69          |
|           | Rear        | 0.32                          | 0.42                    | 0.74          |
| Mode      | Position    | DC_2A_n2A                     |                         |               |
|           |             | LTE Band 2 - Ant.1<br>(W/kg)  | NR n2 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                          | 0.11                    | 0.42          |
|           | Left Tilt   | 0.37                          | 0.10                    | 0.47          |
|           | Right Cheek | 0.68                          | 0.15                    | 0.83          |
|           | Right Tilt  | 0.70                          | 0.07                    | 0.77          |
| Hotspot   | Front       | 0.47                          | 0.38                    | 0.85          |
|           | Rear        | 0.60                          | 0.42                    | 1.02          |
|           | Left        | 0.09                          | 0.06                    | 0.15          |
|           | Right       | 0.05                          | 0.05                    | 0.10          |
|           | Top         | 0.74                          | 0.00                    | 0.74          |
|           | Bottom      | 0.00                          | 0.72                    | 0.72          |
| Body-worn | Front       | 0.32                          | 0.38                    | 0.70          |
|           | Rear        | 0.41                          | 0.42                    | 0.83          |

**ENDC**

| Mode      | Position    | DC_5A_n2A                     |                         |               |
|-----------|-------------|-------------------------------|-------------------------|---------------|
|           |             | LTE Band 5 - Ant.1<br>(W/kg)  | NR n2 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.45                          | 0.11                    | 0.56          |
|           | Left Tilt   | 0.39                          | 0.10                    | 0.49          |
|           | Right Cheek | 0.59                          | 0.15                    | 0.74          |
|           | Right Tilt  | 0.48                          | 0.07                    | 0.55          |
| Hotspot   | Front       | 0.16                          | 0.38                    | 0.54          |
|           | Rear        | 0.17                          | 0.42                    | 0.59          |
|           | Left        | 0.07                          | 0.06                    | 0.13          |
|           | Right       | 0.01                          | 0.05                    | 0.06          |
|           | Top         | 0.02                          | 0.00                    | 0.02          |
|           | Bottom      | 0.00                          | 0.72                    | 0.72          |
| Body-worn | Front       | 0.16                          | 0.38                    | 0.54          |
|           | Rear        | 0.17                          | 0.42                    | 0.59          |
| Mode      | Position    | DC_66A_n2A                    |                         |               |
|           |             | LTE Band 66 - Ant.1<br>(W/kg) | NR n2 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.46                          | 0.11                    | 0.57          |
|           | Left Tilt   | 0.49                          | 0.10                    | 0.59          |
|           | Right Cheek | 0.72                          | 0.15                    | 0.87          |
|           | Right Tilt  | 0.78                          | 0.07                    | 0.85          |
| Hotspot   | Front       | 0.50                          | 0.38                    | 0.88          |
|           | Rear        | 0.51                          | 0.42                    | 0.93          |
|           | Left        | 0.11                          | 0.06                    | 0.17          |
|           | Right       | 0.05                          | 0.05                    | 0.10          |
|           | Top         | 0.71                          | 0.00                    | 0.71          |
|           | Bottom      | 0.00                          | 0.72                    | 0.72          |
| Body-worn | Front       | 0.43                          | 0.38                    | 0.81          |
|           | Rear        | 0.44                          | 0.42                    | 0.86          |

# ENDC

| Mode      | Position    | DC_2A_n5A                     |                         |               |
|-----------|-------------|-------------------------------|-------------------------|---------------|
|           |             | LTE Band 2 - Ant.1<br>(W/kg)  | NR n5 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                          | 0.42                    | 0.73          |
|           | Left Tilt   | 0.37                          | 0.21                    | 0.58          |
|           | Right Cheek | 0.68                          | 0.48                    | 1.16          |
|           | Right Tilt  | 0.70                          | 0.21                    | 0.91          |
| Hotspot   | Front       | 0.47                          | 0.42                    | 0.89          |
|           | Rear        | 0.60                          | 0.57                    | 1.17          |
|           | Left        | 0.09                          | 0.00                    | 0.09          |
|           | Right       | 0.05                          | 0.27                    | 0.32          |
|           | Top         | 0.74                          | 0.00                    | 0.74          |
|           | Bottom      | 0.00                          | 0.11                    | 0.11          |
| Body-worn | Front       | 0.32                          | 0.41                    | 0.73          |
|           | Rear        | 0.41                          | 0.51                    | 0.92          |
| Mode      | Position    | DC_66A_n5A                    |                         |               |
|           |             | LTE Band 66 - Ant.1<br>(W/kg) | NR n5 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.46                          | 0.42                    | 0.88          |
|           | Left Tilt   | 0.49                          | 0.21                    | 0.70          |
|           | Right Cheek | 0.72                          | 0.48                    | 1.20          |
|           | Right Tilt  | 0.78                          | 0.21                    | 0.99          |
| Hotspot   | Front       | 0.50                          | 0.42                    | 0.92          |
|           | Rear        | 0.51                          | 0.57                    | 1.08          |
|           | Left        | 0.11                          | 0.00                    | 0.11          |
|           | Right       | 0.05                          | 0.27                    | 0.32          |
|           | Top         | 0.71                          | 0.00                    | 0.71          |
|           | Bottom      | 0.00                          | 0.11                    | 0.11          |
| Body-worn | Front       | 0.43                          | 0.41                    | 0.84          |
|           | Rear        | 0.44                          | 0.51                    | 0.95          |



**ENDC**

| Mode      | Position    | DC_13A_n66A                   |                          |               |
|-----------|-------------|-------------------------------|--------------------------|---------------|
|           |             | LTE Band 13 - Ant.1<br>(W/kg) | NR n66 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.42                          | 0.12                     | 0.54          |
|           | Left Tilt   | 0.37                          | 0.07                     | 0.44          |
|           | Right Cheek | 0.52                          | 0.19                     | 0.71          |
|           | Right Tilt  | 0.41                          | 0.07                     | 0.48          |
| Hotspot   | Front       | 0.51                          | 0.29                     | 0.80          |
|           | Rear        | 0.54                          | 0.55                     | 1.09          |
|           | Left        | 0.33                          | 0.03                     | 0.36          |
|           | Right       | 0.26                          | 0.04                     | 0.30          |
|           | Top         | 0.48                          | 0.00                     | 0.48          |
|           | Bottom      | 0.00                          | 0.74                     | 0.74          |
| Body-worn | Front       | 0.31                          | 0.30                     | 0.61          |
|           | Rear        | 0.32                          | 0.40                     | 0.72          |
| Mode      | Position    | DC_2A_n66A                    |                          |               |
|           |             | LTE Band 2 - Ant.1<br>(W/kg)  | NR n66 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                          | 0.12                     | 0.43          |
|           | Left Tilt   | 0.37                          | 0.07                     | 0.44          |
|           | Right Cheek | 0.68                          | 0.19                     | 0.87          |
|           | Right Tilt  | 0.70                          | 0.07                     | 0.77          |
| Hotspot   | Front       | 0.47                          | 0.29                     | 0.76          |
|           | Rear        | 0.60                          | 0.55                     | 1.15          |
|           | Left        | 0.09                          | 0.03                     | 0.12          |
|           | Right       | 0.05                          | 0.04                     | 0.09          |
|           | Top         | 0.74                          | 0.00                     | 0.74          |
|           | Bottom      | 0.00                          | 0.74                     | 0.74          |
| Body-worn | Front       | 0.32                          | 0.30                     | 0.62          |
|           | Rear        | 0.41                          | 0.40                     | 0.81          |

**ENDC**

| Mode      | Position    | <b>DC_5A_n66A</b>             |                          |               |
|-----------|-------------|-------------------------------|--------------------------|---------------|
|           |             | LTE Band 5 - Ant.1<br>(W/kg)  | NR n66 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.45                          | 0.12                     | 0.57          |
|           | Left Tilt   | 0.39                          | 0.07                     | 0.46          |
|           | Right Cheek | 0.59                          | 0.19                     | 0.78          |
|           | Right Tilt  | 0.48                          | 0.07                     | 0.55          |
| Hotspot   | Front       | 0.16                          | 0.29                     | 0.45          |
|           | Rear        | 0.17                          | 0.55                     | 0.72          |
|           | Left        | 0.07                          | 0.03                     | 0.10          |
|           | Right       | 0.01                          | 0.04                     | 0.05          |
|           | Top         | 0.02                          | 0.00                     | 0.02          |
|           | Bottom      | 0.00                          | 0.74                     | 0.74          |
| Body-worn | Front       | 0.16                          | 0.30                     | 0.46          |
|           | Rear        | 0.17                          | 0.40                     | 0.57          |
| Mode      | Position    | <b>DC_66A_n66A</b>            |                          |               |
|           |             | LTE Band 66 - Ant.1<br>(W/kg) | NR n66 - Ant.5<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.46                          | 0.12                     | 0.58          |
|           | Left Tilt   | 0.49                          | 0.07                     | 0.56          |
|           | Right Cheek | 0.72                          | 0.19                     | 0.91          |
|           | Right Tilt  | 0.78                          | 0.07                     | 0.85          |
| Hotspot   | Front       | 0.50                          | 0.29                     | 0.79          |
|           | Rear        | 0.51                          | 0.55                     | 1.06          |
|           | Left        | 0.11                          | 0.03                     | 0.14          |
|           | Right       | 0.05                          | 0.04                     | 0.09          |
|           | Top         | 0.71                          | 0.00                     | 0.71          |
|           | Bottom      | 0.00                          | 0.74                     | 0.74          |
| Body-worn | Front       | 0.43                          | 0.30                     | 0.73          |
|           | Rear        | 0.44                          | 0.40                     | 0.84          |

**ENDC**

| Mode      | Position    | <b>DC_2A_n77A</b>            |                          |               |
|-----------|-------------|------------------------------|--------------------------|---------------|
|           |             | LTE Band 2 - Ant.1<br>(W/kg) | NR n77 - Ant.6<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                         | 0.27                     | 0.58          |
|           | Left Tilt   | 0.37                         | 0.21                     | 0.58          |
|           | Right Cheek | 0.68                         | 0.69                     | 1.37          |
|           | Right Tilt  | 0.70                         | 0.43                     | 1.13          |
| Hotspot   | Front       | 0.47                         | 0.30                     | 0.77          |
|           | Rear        | 0.60                         | 0.50                     | 1.10          |
|           | Left        | 0.09                         | 0.36                     | 0.45          |
|           | Right       | 0.05                         | 0.05                     | 0.10          |
|           | Top         | 0.74                         | 0.15                     | 0.89          |
|           | Bottom      | 0.00                         | 0.00                     | 0.00          |
| Body-worn | Front       | 0.32                         | 0.28                     | 0.60          |
|           | Rear        | 0.41                         | 0.32                     | 0.73          |
| Mode      | Position    | <b>DC_5A_n77A</b>            |                          |               |
|           |             | LTE Band 5 - Ant.1<br>(W/kg) | NR n77 - Ant.6<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.45                         | 0.27                     | 0.72          |
|           | Left Tilt   | 0.39                         | 0.21                     | 0.60          |
|           | Right Cheek | 0.59                         | 0.69                     | 1.28          |
|           | Right Tilt  | 0.48                         | 0.43                     | 0.91          |
| Hotspot   | Front       | 0.16                         | 0.30                     | 0.46          |
|           | Rear        | 0.17                         | 0.50                     | 0.67          |
|           | Left        | 0.07                         | 0.36                     | 0.43          |
|           | Right       | 0.01                         | 0.05                     | 0.06          |
|           | Top         | 0.02                         | 0.15                     | 0.17          |
|           | Bottom      | 0.00                         | 0.00                     | 0.00          |
| Body-worn | Front       | 0.16                         | 0.28                     | 0.44          |
|           | Rear        | 0.17                         | 0.32                     | 0.49          |

**ENDC**

| Mode      | Position    | DC_66A_n77A                   |                          |               |
|-----------|-------------|-------------------------------|--------------------------|---------------|
|           |             | LTE Band 66 - Ant.1<br>(W/kg) | NR n77 - Ant.6<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.46                          | 0.27                     | 0.73          |
|           | Left Tilt   | 0.49                          | 0.21                     | 0.70          |
|           | Right Cheek | 0.72                          | 0.69                     | 1.41          |
|           | Right Tilt  | 0.78                          | 0.43                     | 1.21          |
| Hotspot   | Front       | 0.50                          | 0.30                     | 0.80          |
|           | Rear        | 0.51                          | 0.50                     | 1.01          |
|           | Left        | 0.11                          | 0.36                     | 0.47          |
|           | Right       | 0.05                          | 0.05                     | 0.10          |
|           | Top         | 0.71                          | 0.15                     | 0.86          |
|           | Bottom      | 0.00                          | 0.00                     | 0.00          |
| Body-worn | Front       | 0.43                          | 0.28                     | 0.71          |
|           | Rear        | 0.44                          | 0.32                     | 0.76          |
| Mode      | Position    | DC_13A_n77A                   |                          |               |
|           |             | LTE Band 13 - Ant.1<br>(W/kg) | NR n77 - Ant.6<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.42                          | 0.27                     | 0.69          |
|           | Left Tilt   | 0.37                          | 0.21                     | 0.58          |
|           | Right Cheek | 0.52                          | 0.69                     | 1.21          |
|           | Right Tilt  | 0.41                          | 0.43                     | 0.84          |
| Hotspot   | Front       | 0.51                          | 0.30                     | 0.81          |
|           | Rear        | 0.54                          | 0.50                     | 1.04          |
|           | Left        | 0.33                          | 0.36                     | 0.69          |
|           | Right       | 0.26                          | 0.05                     | 0.31          |
|           | Top         | 0.48                          | 0.15                     | 0.63          |
|           | Bottom      | 0.00                          | 0.00                     | 0.00          |
| Body-worn | Front       | 0.31                          | 0.28                     | 0.59          |
|           | Rear        | 0.32                          | 0.32                     | 0.64          |

**ENDC**

| Mode      | Position    | <b>DC_2A_n77A</b>            |                          |               |
|-----------|-------------|------------------------------|--------------------------|---------------|
|           |             | LTE Band 2 - Ant.1<br>(W/kg) | NR n77 - Ant.2<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                         | 0.34                     | 0.65          |
|           | Left Tilt   | 0.37                         | 0.12                     | 0.49          |
|           | Right Cheek | 0.68                         | 0.64                     | 1.32          |
|           | Right Tilt  | 0.70                         | 0.18                     | 0.88          |
| Hotspot   | Front       | 0.47                         | 0.15                     | 0.62          |
|           | Rear        | 0.60                         | 0.50                     | 1.10          |
|           | Left        | 0.09                         | 0.44                     | 0.53          |
|           | Right       | 0.05                         | 0.02                     | 0.07          |
|           | Top         | 0.74                         | 0.08                     | 0.82          |
|           | Bottom      | 0.00                         | 0.02                     | 0.02          |
| Body-worn | Front       | 0.32                         | 0.15                     | 0.47          |
|           | Rear        | 0.41                         | 0.54                     | 0.95          |
| Mode      | Position    | <b>DC_5A_n77A</b>            |                          |               |
|           |             | LTE Band 5 - Ant.1<br>(W/kg) | NR n77 - Ant.2<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.45                         | 0.34                     | 0.79          |
|           | Left Tilt   | 0.39                         | 0.12                     | 0.51          |
|           | Right Cheek | 0.59                         | 0.64                     | 1.23          |
|           | Right Tilt  | 0.48                         | 0.18                     | 0.66          |
| Hotspot   | Front       | 0.16                         | 0.15                     | 0.31          |
|           | Rear        | 0.17                         | 0.50                     | 0.67          |
|           | Left        | 0.07                         | 0.44                     | 0.51          |
|           | Right       | 0.01                         | 0.02                     | 0.03          |
|           | Top         | 0.02                         | 0.08                     | 0.10          |
|           | Bottom      | 0.00                         | 0.02                     | 0.02          |
| Body-worn | Front       | 0.16                         | 0.15                     | 0.31          |
|           | Rear        | 0.17                         | 0.54                     | 0.71          |

**ENDC**

| Mode      | Position    | DC_66A_n77A                   |                          |               |
|-----------|-------------|-------------------------------|--------------------------|---------------|
|           |             | LTE Band 66 - Ant.1<br>(W/kg) | NR n77 - Ant.2<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.46                          | 0.34                     | 0.80          |
|           | Left Tilt   | 0.49                          | 0.12                     | 0.61          |
|           | Right Cheek | 0.72                          | 0.64                     | 1.36          |
|           | Right Tilt  | 0.78                          | 0.18                     | 0.96          |
| Hotspot   | Front       | 0.50                          | 0.15                     | 0.65          |
|           | Rear        | 0.51                          | 0.50                     | 1.01          |
|           | Left        | 0.11                          | 0.44                     | 0.55          |
|           | Right       | 0.05                          | 0.02                     | 0.07          |
|           | Top         | 0.71                          | 0.08                     | 0.79          |
|           | Bottom      | 0.00                          | 0.02                     | 0.02          |
| Body-worn | Front       | 0.43                          | 0.15                     | 0.58          |
|           | Rear        | 0.44                          | 0.54                     | 0.98          |
| Mode      | Position    | DC_13A_n77A                   |                          |               |
|           |             | LTE Band 13 - Ant.1<br>(W/kg) | NR n77 - Ant.2<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.42                          | 0.34                     | 0.76          |
|           | Left Tilt   | 0.37                          | 0.12                     | 0.49          |
|           | Right Cheek | 0.52                          | 0.64                     | 1.16          |
|           | Right Tilt  | 0.41                          | 0.18                     | 0.59          |
| Hotspot   | Front       | 0.51                          | 0.15                     | 0.66          |
|           | Rear        | 0.54                          | 0.50                     | 1.04          |
|           | Left        | 0.33                          | 0.44                     | 0.77          |
|           | Right       | 0.26                          | 0.02                     | 0.28          |
|           | Top         | 0.48                          | 0.08                     | 0.56          |
|           | Bottom      | 0.00                          | 0.02                     | 0.02          |
| Body-worn | Front       | 0.31                          | 0.15                     | 0.46          |
|           | Rear        | 0.32                          | 0.54                     | 0.86          |

**ENDC**

| Mode      | Position    | <b>DC_2A_n77A</b>            |                          |               |
|-----------|-------------|------------------------------|--------------------------|---------------|
|           |             | LTE Band 2 - Ant.1<br>(W/kg) | NR n77 - Ant.3<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                         | 0.33                     | 0.64          |
|           | Left Tilt   | 0.37                         | 0.19                     | 0.56          |
|           | Right Cheek | 0.68                         | 0.17                     | 0.85          |
|           | Right Tilt  | 0.70                         | 0.11                     | 0.81          |
| Hotspot   | Front       | 0.47                         | 0.11                     | 0.58          |
|           | Rear        | 0.60                         | 0.69                     | 1.29          |
|           | Left        | 0.09                         | 0.03                     | 0.12          |
|           | Right       | 0.05                         | 0.42                     | 0.47          |
|           | Top         | 0.74                         | 0.28                     | 1.02          |
|           | Bottom      | 0.00                         | 0.05                     | 0.05          |
| Body-worn | Front       | 0.32                         | 0.07                     | 0.39          |
|           | Rear        | 0.41                         | 0.54                     | 0.95          |
| Mode      | Position    | <b>DC_5A_n77A</b>            |                          |               |
|           |             | LTE Band 5 - Ant.1<br>(W/kg) | NR n77 - Ant.3<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.45                         | 0.33                     | 0.78          |
|           | Left Tilt   | 0.39                         | 0.19                     | 0.58          |
|           | Right Cheek | 0.59                         | 0.17                     | 0.76          |
|           | Right Tilt  | 0.48                         | 0.11                     | 0.59          |
| Hotspot   | Front       | 0.16                         | 0.11                     | 0.27          |
|           | Rear        | 0.17                         | 0.69                     | 0.86          |
|           | Left        | 0.07                         | 0.03                     | 0.10          |
|           | Right       | 0.01                         | 0.42                     | 0.43          |
|           | Top         | 0.02                         | 0.28                     | 0.30          |
|           | Bottom      | 0.00                         | 0.05                     | 0.05          |
| Body-worn | Front       | 0.16                         | 0.07                     | 0.23          |
|           | Rear        | 0.17                         | 0.54                     | 0.71          |

**ENDC**

| Mode      | Position    | DC_66A_n77A                   |                          |               |
|-----------|-------------|-------------------------------|--------------------------|---------------|
|           |             | LTE Band 66 - Ant.1<br>(W/kg) | NR n77 - Ant.3<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.46                          | 0.33                     | 0.79          |
|           | Left Tilt   | 0.49                          | 0.19                     | 0.68          |
|           | Right Cheek | 0.72                          | 0.17                     | 0.89          |
|           | Right Tilt  | 0.78                          | 0.11                     | 0.89          |
| Hotspot   | Front       | 0.50                          | 0.11                     | 0.61          |
|           | Rear        | 0.51                          | 0.69                     | 1.20          |
|           | Left        | 0.11                          | 0.03                     | 0.14          |
|           | Right       | 0.05                          | 0.42                     | 0.47          |
|           | Top         | 0.71                          | 0.28                     | 0.99          |
|           | Bottom      | 0.00                          | 0.05                     | 0.05          |
| Body-worn | Front       | 0.43                          | 0.07                     | 0.50          |
|           | Rear        | 0.44                          | 0.54                     | 0.98          |
| Mode      | Position    | DC_13A_n77A                   |                          |               |
|           |             | LTE Band 13 - Ant.1<br>(W/kg) | NR n77 - Ant.3<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.42                          | 0.33                     | 0.75          |
|           | Left Tilt   | 0.37                          | 0.19                     | 0.56          |
|           | Right Cheek | 0.52                          | 0.17                     | 0.69          |
|           | Right Tilt  | 0.41                          | 0.11                     | 0.52          |
| Hotspot   | Front       | 0.51                          | 0.11                     | 0.62          |
|           | Rear        | 0.54                          | 0.69                     | 1.23          |
|           | Left        | 0.33                          | 0.03                     | 0.36          |
|           | Right       | 0.26                          | 0.42                     | 0.68          |
|           | Top         | 0.48                          | 0.28                     | 0.76          |
|           | Bottom      | 0.00                          | 0.05                     | 0.05          |
| Body-worn | Front       | 0.31                          | 0.07                     | 0.38          |
|           | Rear        | 0.32                          | 0.54                     | 0.86          |



**ENDC**

| Mode      | Position    | <b>DC_2A_n77A</b>             |                          |               |
|-----------|-------------|-------------------------------|--------------------------|---------------|
|           |             | LTE Band 2 - Ant. 1<br>(W/kg) | NR n77 - Ant.4<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.31                          | 0.51                     | 0.82          |
|           | Left Tilt   | 0.37                          | 0.27                     | 0.64          |
|           | Right Cheek | 0.68                          | 0.30                     | 0.98          |
|           | Right Tilt  | 0.70                          | 0.43                     | 1.13          |
| Hotspot   | Front       | 0.47                          | 0.57                     | 1.04          |
|           | Rear        | 0.60                          | 0.67                     | 1.27          |
|           | Left        | 0.09                          | 0.68                     | 0.77          |
|           | Right       | 0.05                          | 0.11                     | 0.16          |
|           | Top         | 0.74                          | 0.09                     | 0.83          |
|           | Bottom      | 0.00                          | 0.46                     | 0.46          |
| Body-worn | Front       | 0.32                          | 0.40                     | 0.72          |
|           | Rear        | 0.41                          | 0.55                     | 0.96          |
| Mode      | Position    | <b>DC_5A_n77A</b>             |                          |               |
|           |             | LTE Band 5 - Ant. 1<br>(W/kg) | NR n77 - Ant.4<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.45                          | 0.51                     | 0.96          |
|           | Left Tilt   | 0.39                          | 0.27                     | 0.66          |
|           | Right Cheek | 0.59                          | 0.30                     | 0.89          |
|           | Right Tilt  | 0.48                          | 0.43                     | 0.91          |
| Hotspot   | Front       | 0.16                          | 0.57                     | 0.73          |
|           | Rear        | 0.17                          | 0.67                     | 0.84          |
|           | Left        | 0.07                          | 0.68                     | 0.75          |
|           | Right       | 0.01                          | 0.11                     | 0.12          |
|           | Top         | 0.02                          | 0.09                     | 0.11          |
|           | Bottom      | 0.00                          | 0.46                     | 0.46          |
| Body-worn | Front       | 0.16                          | 0.40                     | 0.56          |
|           | Rear        | 0.17                          | 0.55                     | 0.72          |

**ENDC**

| Mode      | Position    | DC_66A_n77A                   |                          |               |
|-----------|-------------|-------------------------------|--------------------------|---------------|
|           |             | LTE Band 66 - Ant.1<br>(W/kg) | NR n77 - Ant.4<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.46                          | 0.51                     | 0.97          |
|           | Left Tilt   | 0.49                          | 0.27                     | 0.76          |
|           | Right Cheek | 0.72                          | 0.30                     | 1.02          |
|           | Right Tilt  | 0.78                          | 0.43                     | 1.21          |
| Hotspot   | Front       | 0.50                          | 0.57                     | 1.07          |
|           | Rear        | 0.51                          | 0.67                     | 1.18          |
|           | Left        | 0.11                          | 0.68                     | 0.79          |
|           | Right       | 0.05                          | 0.11                     | 0.16          |
|           | Top         | 0.71                          | 0.09                     | 0.80          |
|           | Bottom      | 0.00                          | 0.46                     | 0.46          |
| Body-worn | Front       | 0.43                          | 0.40                     | 0.83          |
|           | Rear        | 0.44                          | 0.55                     | 0.99          |
| Mode      | Position    | DC_13A_n77A                   |                          |               |
|           |             | LTE Band 13 - Ant.1<br>(W/kg) | NR n77 - Ant.4<br>(W/kg) | SUM<br>(W/kg) |
| Head      | Left Cheek  | 0.42                          | 0.51                     | 0.93          |
|           | Left Tilt   | 0.37                          | 0.27                     | 0.64          |
|           | Right Cheek | 0.52                          | 0.30                     | 0.82          |
|           | Right Tilt  | 0.41                          | 0.43                     | 0.84          |
| Hotspot   | Front       | 0.51                          | 0.57                     | 1.08          |
|           | Rear        | 0.54                          | 0.67                     | 1.21          |
|           | Left        | 0.33                          | 0.68                     | 1.01          |
|           | Right       | 0.26                          | 0.11                     | 0.37          |
|           | Top         | 0.48                          | 0.09                     | 0.57          |
|           | Bottom      | 0.00                          | 0.46                     | 0.46          |
| Body-worn | Front       | 0.31                          | 0.40                     | 0.71          |
|           | Rear        | 0.32                          | 0.55                     | 0.87          |

According to the KDB 447498 D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by  $(SAR1 + SAR2)^{1.5}/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion. When 10-g SAR applies, the ratio must be  $\leq 0.10$ .

**Table 12.3: The sum of SAR values for LTE UL CA and Bluetooth/WLAN Antenna**

| LTE UL CA + WLAN 2.4GHz           |                  |      |                              |            |       |
|-----------------------------------|------------------|------|------------------------------|------------|-------|
| Position                          | LTE UL CA (W/kg) |      | WLAN 2.4GHz (W/kg)           | Sum (W/kg) | SPLSR |
| Rear (10mm)                       | CA_13A-66A       | 1.31 | 0.30                         | 1.61       | Yes   |
| LTE UL CA + WLAN 5GHz + Bluetooth |                  |      |                              |            |       |
| Position                          | LTE UL CA (W/kg) |      | WLAN 5GHz + Bluetooth (W/kg) | Sum (W/kg) | SPLSR |
| Rear (10mm)                       | CA_13A-66A       | 1.31 | 0.48                         | 1.79       | Yes   |

**SAR to Peak Location Separation Ratio (SPLSR)**

| Band                              | Position | 1g SAR<br>(W/kg) | Gap<br>(cm) | SAR peak location (m) |         |        | 3D<br>distance<br>(mm) | Pair SAR<br>sum<br>(W/kg) | SPLSR | Simultaneous<br>SAR |
|-----------------------------------|----------|------------------|-------------|-----------------------|---------|--------|------------------------|---------------------------|-------|---------------------|
|                                   |          |                  |             | X                     | Y       | Z      |                        |                           |       |                     |
|                                   |          |                  |             | X                     | Y       | Z      |                        |                           |       |                     |
| CA_13A-66A + WLAN 2.4GHz          |          |                  |             |                       |         |        |                        |                           |       |                     |
| LTE B13                           | Rear     | 0.54             | 10          | -0.049                | -0.0665 | -0.205 | 48.1                   | 0.84                      | 0.016 | Not required        |
| WLAN 2.4GHz                       |          | 0.30             | 10          | -0.001                | -0.064  | -0.205 |                        |                           |       |                     |
| LTE B66                           | Rear     | 0.77             | 10          | -0.0305               | 0.084   | -0.204 | 150.9                  | 1.07                      | 0.007 |                     |
| WLAN 2.4GHz                       |          | 0.30             | 10          | -0.001                | -0.064  | -0.205 |                        |                           |       |                     |
| CA_2A-66A + WLAN 5GHz + Bluetooth |          |                  |             |                       |         |        |                        |                           |       |                     |
| LTE B13                           | Rear     | 0.54             | 10          | -0.049                | -0.0665 | -0.205 | 61.5                   | 1.02                      | 0.016 | Not required        |
| WLAN 5GHz + Bluetooth             |          | 0.48             | 10          | 0.0118                | -0.076  | -0.205 |                        |                           |       |                     |
| LTE B66                           | Rear     | 0.77             | 10          | -0.0305               | 0.084   | -0.204 | 165.5                  | 1.25                      | 0.008 |                     |
| WLAN 5GHz + Bluetooth             |          | 0.48             | 10          | 0.0118                | -0.076  | -0.205 |                        |                           |       |                     |

Table 12.4: The sum of SAR values for ENDC and Bluetooth/WLAN Antenna

| The sum of SAR values for ENDC and WLAN 5GHz/Bluetooth |                           |      |                              |            |       |
|--------------------------------------------------------|---------------------------|------|------------------------------|------------|-------|
| Position                                               | ENDC (W/kg)               |      | WLAN 5GHz + Bluetooth (W/kg) | Sum (W/kg) | SPLSR |
| Rear (10mm)                                            | DC_2A_n5A                 | 1.17 | 0.48                         | 1.65       | Yes   |
|                                                        | DC_2A_n66A                | 1.15 | 0.48                         | 1.63       | Yes   |
|                                                        | DC_2A(Ant.1)_n77A(Ant.3)  | 1.29 | 0.48                         | 1.77       | Yes   |
|                                                        | DC_66A(Ant.1)_n77A(Ant.3) | 1.20 | 0.48                         | 1.68       | Yes   |
|                                                        | DC_13A(Ant.1)_n77A(Ant.3) | 1.23 | 0.48                         | 1.71       | Yes   |
|                                                        | DC_2A(Ant.1)_n77A(Ant.4)  | 1.27 | 0.48                         | 1.75       | Yes   |
|                                                        | DC_66A(Ant.1)_n77A(Ant.4) | 1.18 | 0.48                         | 1.66       | Yes   |
|                                                        | DC_13A(Ant.1)_n77A(Ant.4) | 1.21 | 0.48                         | 1.69       | Yes   |

SAR to Peak Location Separation Ratio (SPLSR)

| Band                                              | Position | 1g SAR<br>(W/kg) | Gap<br>(cm) | SAR peak location (m) |         |        | 3D<br>distance<br>(mm) | Pair SAR<br>sum<br>(W/kg) | SPLSR | Simultaneous<br>SAR |
|---------------------------------------------------|----------|------------------|-------------|-----------------------|---------|--------|------------------------|---------------------------|-------|---------------------|
|                                                   |          |                  |             | X                     | Y       | Z      |                        |                           |       |                     |
|                                                   |          |                  |             | X                     | Y       | Z      |                        |                           |       |                     |
| DC_2A_n5A + WLAN 5GHz + Bluetooth                 |          |                  |             |                       |         |        |                        |                           |       |                     |
| LTE B2                                            | Rear     | 0.60             | 10          | -0.034                | -0.084  | -0.205 | 46.5                   | 1.08                      | 0.024 | Not required        |
| WLAN 5GHz + Bluetooth                             |          | 0.48             | 10          | 0.0118                | -0.076  | -0.205 |                        |                           |       |                     |
| NR n5                                             | Rear     | 0.57             | 10          | -0.005                | -0.0135 | -0.205 | 64.7                   | 1.05                      | 0.017 |                     |
| WLAN 5GHz + Bluetooth                             |          | 0.48             | 10          | 0.0118                | -0.076  | -0.205 |                        |                           |       |                     |
| DC_2A_n66A + WLAN 5GHz + Bluetooth                |          |                  |             |                       |         |        |                        |                           |       |                     |
| LTE B2                                            | Rear     | 0.60             | 10          | -0.034                | -0.084  | -0.205 | 46.5                   | 1.08                      | 0.024 | Not required        |
| WLAN 5GHz + Bluetooth                             |          | 0.48             | 10          | 0.0118                | -0.076  | -0.205 |                        |                           |       |                     |
| NR n66                                            | Rear     | 0.55             | 10          | -0.0275               | 0.0795  | -0.204 | 160.4                  | 1.03                      | 0.007 |                     |
| WLAN 5GHz + Bluetooth                             |          | 0.48             | 10          | 0.0118                | -0.076  | -0.205 |                        |                           |       |                     |
| DC_2A(Ant.1)_n77A(Ant.3) + WLAN 5GHz + Bluetooth  |          |                  |             |                       |         |        |                        |                           |       |                     |
| LTE B2                                            | Rear     | 0.60             | 10          | -0.034                | -0.084  | -0.205 | 46.5                   | 1.08                      | 0.024 | Not required        |
| WLAN 5GHz + Bluetooth                             |          | 0.48             | 10          | 0.0118                | -0.076  | -0.205 |                        |                           |       |                     |
| NR n77                                            | Rear     | 0.69             | 10          | 0.0115                | -0.0435 | -0.205 | 32.5                   | 1.17                      | 0.039 |                     |
| WLAN 5GHz + Bluetooth                             |          | 0.48             | 10          | 0.0118                | -0.076  | -0.205 |                        |                           |       |                     |
| DC_66A(Ant.1)_n77A(Ant.3) + WLAN 5GHz + Bluetooth |          |                  |             |                       |         |        |                        |                           |       |                     |

|                                                   |      |      |    |        |         |        |       |      |       |              |
|---------------------------------------------------|------|------|----|--------|---------|--------|-------|------|-------|--------------|
| LTE B66                                           | Rear | 0.51 | 10 | -0.032 | -0.087  | -0.205 | 45.2  | 0.99 | 0.022 | Not required |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| NR n77                                            | Rear | 0.69 | 10 | 0.0115 | -0.0435 | -0.205 | 32.5  | 1.17 | 0.039 |              |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| DC_13A(Ant.1)_n77A(Ant.3) + WLAN 5GHz + Bluetooth |      |      |    |        |         |        |       |      |       |              |
| LTE B13                                           | Rear | 0.54 | 10 | -0.049 | -0.0665 | -0.205 | 61.5  | 1.02 | 0.017 | Not required |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| NR n77                                            | Rear | 0.69 | 10 | 0.0115 | -0.0435 | -0.205 | 32.5  | 1.17 | 0.039 |              |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| DC_2A(Ant.1)_n77A(Ant.4) + WLAN 5GHz + Bluetooth  |      |      |    |        |         |        |       |      |       |              |
| LTE B2                                            | Rear | 0.60 | 10 | -0.034 | -0.084  | -0.205 | 46.5  | 1.08 | 0.024 | Not required |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| NR n77                                            | Rear | 0.67 | 10 | -0.044 | 0.069   | -0.205 | 155.4 | 1.15 | 0.008 |              |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| DC_66A(Ant.1)_n77A(Ant.4) + WLAN 5GHz + Bluetooth |      |      |    |        |         |        |       |      |       |              |
| LTE B66                                           | Rear | 0.51 | 10 | -0.032 | -0.087  | -0.205 | 45.2  | 0.99 | 0.022 | Not required |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| NR n77                                            | Rear | 0.67 | 10 | -0.044 | 0.069   | -0.205 | 155.4 | 1.15 | 0.008 |              |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| DC_13A(Ant.1)_n77A(Ant.4) + WLAN 5GHz + Bluetooth |      |      |    |        |         |        |       |      |       |              |
| LTE B13                                           | Rear | 0.54 | 10 | -0.049 | -0.0665 | -0.205 | 61.5  | 1.02 | 0.017 | Not required |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |
| NR n77                                            | Rear | 0.67 | 10 | -0.044 | 0.069   | -0.205 | 155.4 | 1.15 | 0.008 |              |
| WLAN 5GHz + Bluetooth                             |      | 0.48 | 10 | 0.0118 | -0.076  | -0.205 |       |      |       |              |

**Table 12.5: The sum of SAR values for WWAN and Bluetooth/WLAN Antenna**

| WWAN + WLAN 5GHz + Bluetooth |             |      |                              |            |       |
|------------------------------|-------------|------|------------------------------|------------|-------|
| Position                     | WWAN (W/kg) |      | WLAN 5GHz + Bluetooth (W/kg) | Sum (W/kg) | SPLSR |
| Rear (0mm)                   | WCDMA B4    | 3.01 | 1.55                         | 4.56       | Yes   |

**SAR to peak Location Separation Ratio (SPLSR)**

| Band                  | Position | 10g SAR (W/kg) | Gap (cm) | SAR peak location (m) |         |        | 3D distance (mm) | Pair SAR sum (W/kg) | SPLSR | Simultaneous SAR |
|-----------------------|----------|----------------|----------|-----------------------|---------|--------|------------------|---------------------|-------|------------------|
|                       |          |                |          | X                     | Y       | Z      |                  |                     |       |                  |
| WCDMA B4              | Rear     | 3.01           | 0        | -0.0175               | 0.0775  | -0.205 | 158.7            | 4.56                | 0.061 | Not required     |
| WLAN 5GHz + Bluetooth |          | 1.55           | 0        | 0.0178                | -0.0772 | -0.205 |                  |                     |       |                  |

**Table 12.6: Maximum Simultaneous Transmission SAR**

| I                                        | Position                                               | Sum (W/kg)  |
|------------------------------------------|--------------------------------------------------------|-------------|
| Highest reported SAR value for Head      | Right Cheek<br>(DC_66A_n77A + WLAN 5HGHZ + Bluetooth ) | <b>1.58</b> |
| Highest reported SAR value for Hotspot   | Rear Side<br>(DC_13A_n77A + WLAN 2.4GHz )              | <b>1.59</b> |
| Highest reported SAR value for Body-worn | Rear Side<br>(DC_66A_n77A + WLAN 5HGHZ + Bluetooth )   | <b>1.49</b> |
| Highest reported SAR value for Extremity | Bottom Side<br>(WCDMA Band 4 + WLAN 5HGHZ )            | <b>3.20</b> |

Note: the test positions of above tables are for the worse case that has been evaluated.

### Conclusion:

According to the above tables, the sum of reported SAR values is less than limit. So the simultaneous transmission SAR with volume scans is not required.

### 13. Summary of Test Results

According to the client's decision rule in the test registration form, which is "based on the measurement results as the basis of the conformity statement", the test conclusion of this report meets the limit requirements.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where  $P_{\text{Target}}$  is the power of manufacturing upper limit;

$P_{\text{Measured}}$  is the measured power in chapter 10.

#### General Note:

1. Per KDB648474 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 extremity 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.

a. WLAN5GHz U-NII-2A and U-NII-2C tested the product specific 10g SAR since it has no hotspot mode.

b. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.

#### Duty Cycle

| Mode      | Duty Cycle |
|-----------|------------|
| WCDMA     | 1:1        |
| FDD_LTE   | 1:1        |
| 5G NR     | 1:1        |
| Bluetooth | 1:1        |
| WLAN      | 1:1        |

#### 13.1. Testing Environment

|                             |              |
|-----------------------------|--------------|
| Temperature:                | 18°C~25°C    |
| Relative humidity:          | 30%~70%      |
| Ambient noise & Reflection: | < 0.012 W/kg |

### 13.2. SAR results for 3G/4G

**Table 13.1: SAR Values (WCDMA Band 2 - Head)**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 9400           | 1880.0 | RMC       | Left Cheek    | /                | 23.10                 | 24.0                     | 0.079                   | 0.10                    | 0.03            |
| 9400           | 1880.0 | RMC       | Left Tilt     | /                | 23.10                 | 24.0                     | 0.081                   | 0.10                    | 0.02            |
| 9400           | 1880.0 | RMC       | Right Cheek   | 1                | 23.10                 | 24.0                     | 0.127                   | 0.16                    | -0.03           |
| 9400           | 1880.0 | RMC       | Right Tilt    | /                | 23.10                 | 24.0                     | 0.062                   | 0.08                    | 0.12            |

**Table 13.2: SAR Values (WCDMA Band 2 - Body)**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1   |        |           |               |                  |                       |                          |                         |                         |                 |
| 9400                                        | 1880.0 | RMC       | Front         | /                | 20.10                 | 21.0                     | 0.446                   | 0.55                    | -0.12           |
| 9400                                        | 1880.0 | RMC       | Rear          | /                | 20.10                 | 21.0                     | 0.587                   | 0.72                    | 0.17            |
| 9400                                        | 1880.0 | RMC       | Left          | /                | 20.10                 | 21.0                     | 0.070                   | 0.09                    | 0.08            |
| 9400                                        | 1880.0 | RMC       | Right         | /                | 20.10                 | 21.0                     | 0.079                   | 0.10                    | 0.13            |
| 9400                                        | 1880.0 | RMC       | Bottom        | /                | 20.10                 | 21.0                     | 0.826                   | 1.02                    | -0.01           |
| 9538                                        | 1907.6 | RMC       | Bottom        | /                | 20.10                 | 21.0                     | 0.684                   | 0.84                    | 0.11            |
| 9262                                        | 1852.4 | RMC       | Bottom        | 2                | 20.10                 | 21.0                     | 0.895                   | 1.10                    | 0.10            |
| Body-Worn Test Data (15mm) - Power Level C1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 9400                                        | 1880.0 | RMC       | Front         | /                | 21.00                 | 22.0                     | 0.286                   | 0.36                    | 0.02            |
| 9400                                        | 1880.0 | RMC       | Rear          | /                | 21.00                 | 22.0                     | 0.354                   | 0.45                    | 0.08            |



**Table 13.3: SAR Values (WCDMA Band 4 - Head)**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 1413           | 1732.6 | RMC       | Left Cheek    | /                | 23.10                 | 24.0                     | 0.065                   | 0.08                    | 0.07            |
| 1413           | 1732.6 | RMC       | Left Tilt     | /                | 23.10                 | 24.0                     | 0.037                   | 0.05                    | 0.10            |
| 1413           | 1732.6 | RMC       | Right Cheek   | 3                | 23.10                 | 24.0                     | 0.109                   | 0.13                    | 0.05            |
| 1413           | 1732.6 | RMC       | Right Tilt    | /                | 23.10                 | 24.0                     | 0.024                   | 0.03                    | 0.06            |

**Table 13.4: SAR Values ( WCDMA Band 4 - Body)**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1   |        |           |               |                  |                       |                          |                         |                         |                 |
| 1413                                        | 1732.6 | RMC       | Front         | /                | 20.10                 | 21.0                     | 0.570                   | 0.70                    | -0.04           |
| 1413                                        | 1732.6 | RMC       | Rear          | /                | 20.10                 | 21.0                     | 0.768                   | 0.94                    | 0.16            |
| 1413                                        | 1732.6 | RMC       | Left          | /                | 20.10                 | 21.0                     | 0.049                   | 0.06                    | 0.18            |
| 1413                                        | 1732.6 | RMC       | Right         | /                | 20.10                 | 21.0                     | 0.122                   | 0.15                    | 0.09            |
| 1413                                        | 1732.6 | RMC       | Bottom        | /                | 20.10                 | 21.0                     | 0.955                   | 1.17                    | 0.06            |
| 1513                                        | 1752.6 | RMC       | Rear          | /                | 20.00                 | 21.0                     | 0.755                   | 0.95                    | 0.14            |
| 1312                                        | 1712.4 | RMC       | Rear          | /                | 20.20                 | 21.0                     | 0.712                   | 0.86                    | 0.03            |
| 1513                                        | 1752.6 | RMC       | Bottom        | 4                | 20.00                 | 21.0                     | 1.010                   | 1.27                    | 0.14            |
| 1312                                        | 1712.4 | RMC       | Bottom        | /                | 20.20                 | 21.0                     | 0.969                   | 1.16                    | 0.03            |
| Body-Worn Test Data (15mm) - Power Level C1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 1413                                        | 1732.6 | RMC       | Front         | /                | 21.50                 | 22.5                     | 0.487                   | 0.61                    | -0.03           |
| 1413                                        | 1732.6 | RMC       | Rear          | /                | 21.50                 | 22.5                     | 0.576                   | 0.73                    | 0.04            |

**Table 13.5: SAR Values (WCDMA Band 5 - Head)**

| Frequency      |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1 |       |           |               |                  |                       |                          |                         |                         |                 |
| 4183           | 836.6 | RMC       | Left Cheek    | 5                | 23.30                 | 24.0                     | 0.309                   | 0.36                    | 0.02            |
| 4183           | 836.6 | RMC       | Left Tilt     | /                | 23.30                 | 24.0                     | 0.133                   | 0.16                    | 0.12            |
| 4183           | 836.6 | RMC       | Right Cheek   | /                | 23.30                 | 24.0                     | 0.305                   | 0.36                    | 0.02            |
| 4183           | 836.6 | RMC       | Right Tilt    | /                | 23.30                 | 24.0                     | 0.135                   | 0.16                    | 0.04            |

**Table 13.6: SAR Values (WCDMA Band 5 - Body)**

| Frequency                                   |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1   |       |           |               |                  |                       |                          |                         |                         |                 |
| 4183                                        | 836.6 | RMC       | Front         | /                | 23.30                 | 24.0                     | 0.269                   | 0.32                    | 0.13            |
| 4183                                        | 836.6 | RMC       | Rear          | 6                | 23.30                 | 24.0                     | 0.380                   | 0.45                    | 0.04            |
| 4183                                        | 836.6 | RMC       | Left          | /                | 23.30                 | 24.0                     | 0.220                   | 0.26                    | 0.12            |
| 4183                                        | 836.6 | RMC       | Right         | /                | 23.30                 | 24.0                     | 0.319                   | 0.37                    | 0.05            |
| 4183                                        | 836.6 | RMC       | Bottom        | /                | 23.30                 | 24.0                     | 0.058                   | 0.07                    | 0.01            |
| Body-Worn Test Data (10mm) - Power Level C1 |       |           |               |                  |                       |                          |                         |                         |                 |
| 4183                                        | 836.6 | RMC       | Front         | /                | 23.30                 | 24.0                     | 0.269                   | 0.32                    | 0.13            |
| 4183                                        | 836.6 | RMC       | Rear          | /                | 23.30                 | 24.0                     | 0.380                   | 0.45                    | 0.04            |

**Table 13.7: SAR Values (LTE Band 2 - Head) - Ant.5**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 18900          | 1880.0 | 1RB50     | Left Cheek    | /                | 23.09                 | 24.5                     | 0.099                   | 0.14                    | 0.05            |
| 18900          | 1880.0 | 50RB0     | Left Cheek    | /                | 22.03                 | 23.5                     | 0.074                   | 0.10                    | 0.13            |
| 18900          | 1880.0 | 1RB50     | Left Tilt     | /                | 23.09                 | 24.5                     | 0.091                   | 0.13                    | 0.03            |
| 18900          | 1880.0 | 50RB0     | Left Tilt     | /                | 22.03                 | 23.5                     | 0.068                   | 0.10                    | 0.04            |
| 18900          | 1880.0 | 1RB50     | Right Cheek   | 7                | 23.09                 | 24.5                     | 0.136                   | 0.19                    | 0.03            |
| 18900          | 1880.0 | 50RB0     | Right Cheek   | /                | 22.03                 | 23.5                     | 0.102                   | 0.14                    | 0.07            |
| 18900          | 1880.0 | 1RB50     | Right Tilt    | /                | 23.09                 | 24.5                     | 0.079                   | 0.11                    | 0.02            |
| 18900          | 1880.0 | 50RB0     | Right Tilt    | /                | 22.03                 | 23.5                     | 0.053                   | 0.07                    | 0.03            |

**Table 13.8: SAR Values (LTE Band 2 - Body) - Ant.5**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1   |        |           |               |                  |                       |                          |                         |                         |                 |
| 18900                                       | 1880.0 | 1RB50     | Front         | /                | 19.17                 | 20.5                     | 0.348                   | 0.47                    | 0.06            |
| 18900                                       | 1880.0 | 50RB0     | Front         | /                | 18.17                 | 19.5                     | 0.269                   | 0.37                    | -0.11           |
| 18900                                       | 1880.0 | 1RB50     | Rear          | /                | 19.17                 | 20.5                     | 0.444                   | 0.60                    | 0.04            |
| 18900                                       | 1880.0 | 50RB0     | Rear          | /                | 18.17                 | 19.5                     | 0.351                   | 0.48                    | 0.16            |
| 18900                                       | 1880.0 | 1RB50     | Left          | /                | 19.17                 | 20.5                     | 0.055                   | 0.07                    | 0.09            |
| 18900                                       | 1880.0 | 50RB0     | Left          | /                | 18.17                 | 19.5                     | 0.040                   | 0.05                    | -0.19           |
| 18900                                       | 1880.0 | 1RB50     | Right         | /                | 19.17                 | 20.5                     | 0.061                   | 0.08                    | 0.06            |
| 18900                                       | 1880.0 | 50RB0     | Right         | /                | 18.17                 | 19.5                     | 0.047                   | 0.06                    | -0.05           |
| 18900                                       | 1880.0 | 1RB50     | Bottom        | /                | 19.17                 | 20.5                     | 0.675                   | 0.92                    | -0.05           |
| 18900                                       | 1880.0 | 50RB0     | Bottom        | /                | 18.17                 | 19.5                     | 0.547                   | 0.74                    | 0.07            |
| 19100                                       | 1900.0 | 1RB50     | Bottom        | /                | 19.15                 | 20.5                     | 0.573                   | 0.78                    | -0.12           |
| 18700                                       | 1860.0 | 1RB50     | Bottom        | 8                | 19.13                 | 20.5                     | 0.740                   | 1.01                    | 0.06            |
| 18700                                       | 1860.0 | 100RB     | Bottom        | /                | 18.11                 | 19.5                     | 0.522                   | 0.72                    | -0.11           |
| Body-Worn Test Data (15mm) - Power Level C1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 18900                                       | 1880.0 | 1RB50     | Front         | /                | 20.19                 | 22.0                     | 0.221                   | 0.34                    | 0.14            |
| 18900                                       | 1880.0 | 50RB0     | Front         | /                | 19.19                 | 21.0                     | 0.176                   | 0.27                    | -0.07           |
| 18900                                       | 1880.0 | 1RB50     | Rear          | /                | 20.19                 | 22.0                     | 0.272                   | 0.41                    | 0.08            |
| 18900                                       | 1880.0 | 50RB0     | Rear          | /                | 19.19                 | 21.0                     | 0.216                   | 0.33                    | 0.19            |

**Table 13.9: SAR Values (LTE Band 2 - Head) - Ant.1**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 18900          | 1880.0 | 1RB50     | Left Cheek    | /                | 13.33                 | 14.0                     | 0.269                   | 0.31                    | 0.01            |
| 18900          | 1880.0 | 50RB25    | Left Cheek    | /                | 13.25                 | 14.0                     | 0.258                   | 0.31                    | 0.03            |
| 18900          | 1880.0 | 1RB50     | Left Tilt     | /                | 13.33                 | 14.0                     | 0.304                   | 0.35                    | 0.05            |
| 18900          | 1880.0 | 50RB25    | Left Tilt     | /                | 13.25                 | 14.0                     | 0.312                   | 0.37                    | 0.10            |
| 18900          | 1880.0 | 1RB50     | Right Cheek   | /                | 13.33                 | 14.0                     | 0.574                   | 0.67                    | -0.06           |
| 18900          | 1880.0 | 50RB25    | Right Cheek   | /                | 13.25                 | 14.0                     | 0.569                   | 0.68                    | -0.05           |
| 18900          | 1880.0 | 1RB50     | Right Tilt    | /                | 13.33                 | 14.0                     | 0.542                   | 0.63                    | 0.03            |
| 18900          | 1880.0 | 50RB25    | Right Tilt    | /                | 13.25                 | 14.0                     | 0.592                   | 0.70                    | -0.16           |

**Table 13.10: SAR Values (LTE Band 2 - Body) - Ant.1**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 18900                                       | 1880.0 | 1RB50     | Front         | /                | 18.32                 | 19.0                     | 0.386                   | 0.45                    | 0.05            |
| 18900                                       | 1880.0 | 50RB25    | Front         | /                | 18.31                 | 19.0                     | 0.405                   | 0.47                    | 0.03            |
| 18900                                       | 1880.0 | 1RB50     | Rear          | /                | 18.32                 | 19.0                     | 0.494                   | 0.58                    | -0.03           |
| 18900                                       | 1880.0 | 50RB25    | Rear          | /                | 18.31                 | 19.0                     | 0.515                   | 0.60                    | 0.07            |
| 18900                                       | 1880.0 | 1RB50     | Left          | /                | 18.32                 | 19.0                     | 0.072                   | 0.08                    | 0.01            |
| 18900                                       | 1880.0 | 50RB25    | Left          | /                | 18.31                 | 19.0                     | 0.075                   | 0.09                    | 0.14            |
| 18900                                       | 1880.0 | 1RB50     | Right         | /                | 18.32                 | 19.0                     | 0.036                   | 0.04                    | 0.13            |
| 18900                                       | 1880.0 | 50RB25    | Right         | /                | 18.31                 | 19.0                     | 0.039                   | 0.05                    | -0.01           |
| 18900                                       | 1880.0 | 1RB50     | Top           | /                | 18.32                 | 19.0                     | 0.576                   | 0.67                    | 0.10            |
| 18900                                       | 1880.0 | 50RB25    | Top           | /                | 18.31                 | 19.0                     | 0.635                   | 0.74                    | 0.02            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 18900                                       | 1880.0 | 1RB50     | Front         | /                | 20.36                 | 21.0                     | 0.273                   | 0.32                    | 0.02            |
| 18900                                       | 1880.0 | 50RB25    | Front         | /                | 20.34                 | 21.0                     | 0.261                   | 0.30                    | -0.11           |
| 18900                                       | 1880.0 | 1RB50     | Rear          | /                | 20.36                 | 21.0                     | 0.352                   | 0.41                    | 0.03            |
| 18900                                       | 1880.0 | 50RB25    | Rear          | /                | 20.34                 | 21.0                     | 0.353                   | 0.41                    | -0.12           |

**Table 13.11: SAR Values (LTE Band 4 - Head) - Ant.5**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 20300          | 1745.0 | 1RB50     | Left Cheek    | /                | 23.05                 | 24.5                     | 0.088                   | 0.12                    | 0.04            |
| 20300          | 1745.0 | 50RB25    | Left Cheek    | /                | 22.02                 | 23.5                     | 0.063                   | 0.09                    | 0.10            |
| 20300          | 1745.0 | 1RB50     | Left Tilt     | /                | 23.05                 | 24.5                     | 0.049                   | 0.07                    | 0.18            |
| 20300          | 1745.0 | 50RB25    | Left Tilt     | /                | 22.02                 | 23.5                     | 0.039                   | 0.06                    | 0.02            |
| 20300          | 1745.0 | 1RB50     | Right Cheek   | 9                | 23.05                 | 24.5                     | 0.129                   | 0.18                    | 0.08            |
| 20300          | 1745.0 | 50RB25    | Right Cheek   | /                | 22.02                 | 23.5                     | 0.099                   | 0.14                    | 0.02            |
| 20300          | 1745.0 | 1RB50     | Right Tilt    | /                | 23.05                 | 24.5                     | 0.036                   | 0.05                    | 0.11            |
| 20300          | 1745.0 | 50RB25    | Right Tilt    | /                | 22.02                 | 23.5                     | 0.028                   | 0.04                    | 0.04            |

**Table 13.12: SAR Values (LTE Band 4 - Body) - Ant.5**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1   |        |           |               |                  |                       |                          |                         |                         |                 |
| 20300                                       | 1745.0 | 1RB50     | Front         | /                | 19.65                 | 21.0                     | 0.504                   | 0.69                    | -0.11           |
| 20300                                       | 1745.0 | 50RB25    | Front         | /                | 18.69                 | 20.0                     | 0.399                   | 0.54                    | 0.17            |
| 20300                                       | 1745.0 | 1RB50     | Rear          | /                | 19.65                 | 21.0                     | 0.642                   | 0.88                    | 0.07            |
| 20300                                       | 1745.0 | 50RB25    | Rear          | /                | 18.69                 | 20.0                     | 0.547                   | 0.74                    | -0.14           |
| 20300                                       | 1745.0 | 1RB50     | Left          | /                | 19.65                 | 21.0                     | 0.043                   | 0.06                    | 0.14            |
| 20300                                       | 1745.0 | 50RB25    | Left          | /                | 18.69                 | 20.0                     | 0.035                   | 0.05                    | 0.15            |
| 20300                                       | 1745.0 | 1RB50     | Right         | /                | 19.65                 | 21.0                     | 0.105                   | 0.14                    | -0.02           |
| 20300                                       | 1745.0 | 50RB25    | Right         | /                | 18.69                 | 20.0                     | 0.082                   | 0.11                    | -0.08           |
| 20300                                       | 1745.0 | 1RB50     | Bottom        | 10               | 19.65                 | 21.0                     | 0.885                   | 1.21                    | 0.12            |
| 20300                                       | 1745.0 | 50RB25    | Bottom        | /                | 18.69                 | 20.0                     | 0.701                   | 0.95                    | 0.03            |
| 20175                                       | 1732.5 | 1RB50     | Bottom        | /                | 19.61                 | 21.0                     | 0.847                   | 1.17                    | 0.13            |
| 20050                                       | 1720.0 | 1RB50     | Bottom        | /                | 19.59                 | 21.0                     | 0.825                   | 1.14                    | -0.14           |
| 20175                                       | 1732.5 | 50RB25    | Bottom        | /                | 18.64                 | 20.0                     | 0.676                   | 0.92                    | 0.18            |
| 20050                                       | 1720.0 | 50RB25    | Bottom        | /                | 18.68                 | 20.0                     | 0.697                   | 0.94                    | 0.10            |
| 20300                                       | 1745.0 | 100RB     | Bottom        | /                | 18.63                 | 20.0                     | 0.654                   | 0.90                    | 0.03            |
| Body-Worn Test Data (15mm) - Power Level C1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 20300                                       | 1745.0 | 1RB50     | Front         | /                | 20.63                 | 22.0                     | 0.381                   | 0.52                    | 0.09            |
| 20300                                       | 1745.0 | 50RB25    | Front         | /                | 19.72                 | 21.0                     | 0.302                   | 0.41                    | -0.08           |
| 20300                                       | 1745.0 | 1RB50     | Rear          | /                | 20.63                 | 22.0                     | 0.483                   | 0.66                    | 0.04            |
| 20300                                       | 1745.0 | 50RB25    | Rear          | /                | 19.72                 | 21.0                     | 0.427                   | 0.57                    | -0.03           |

**Table 13.13: SAR Values (LTE Band 4 - Head) - Ant.1**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 20175          | 1732.5 | 1RB50     | Left Cheek    | /                | 14.21                 | 15.0                     | 0.328                   | 0.39                    | 0.02            |
| 20175          | 1732.5 | 50RB25    | Left Cheek    | /                | 14.15                 | 15.0                     | 0.319                   | 0.39                    | 0.03            |
| 20175          | 1732.5 | 1RB50     | Left Tilt     | /                | 14.21                 | 15.0                     | 0.366                   | 0.44                    | -0.03           |
| 20175          | 1732.5 | 50RB25    | Left Tilt     | /                | 14.15                 | 15.0                     | 0.352                   | 0.43                    | -0.11           |
| 20175          | 1732.5 | 1RB50     | Right Cheek   | /                | 14.21                 | 15.0                     | 0.527                   | 0.63                    | 0.06            |
| 20175          | 1732.5 | 50RB25    | Right Cheek   | /                | 14.15                 | 15.0                     | 0.520                   | 0.63                    | -0.01           |
| 20175          | 1732.5 | 1RB50     | Right Tilt    | /                | 14.21                 | 15.0                     | 0.567                   | 0.68                    | 0.07            |
| 20175          | 1732.5 | 50RB25    | Right Tilt    | /                | 14.15                 | 15.0                     | 0.538                   | 0.65                    | -0.12           |

**Table 13.14: SAR Values (LTE Band 4 - Body) - Ant.1**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 20175                                       | 1732.5 | 1RB50     | Front         | /                | 19.75                 | 20.5                     | 0.443                   | 0.53                    | 0.02            |
| 20175                                       | 1732.5 | 50RB25    | Front         | /                | 19.73                 | 20.5                     | 0.472                   | 0.56                    | -0.03           |
| 20175                                       | 1732.5 | 1RB50     | Rear          | /                | 19.75                 | 20.5                     | 0.399                   | 0.47                    | 0.05            |
| 20175                                       | 1732.5 | 50RB25    | Rear          | /                | 19.73                 | 20.5                     | 0.480                   | 0.57                    | -0.09           |
| 20175                                       | 1732.5 | 1RB50     | Left          | /                | 19.75                 | 20.5                     | 0.083                   | 0.10                    | 0.02            |
| 20175                                       | 1732.5 | 50RB25    | Left          | /                | 19.73                 | 20.5                     | 0.092                   | 0.11                    | 0.11            |
| 20175                                       | 1732.5 | 1RB50     | Right         | /                | 19.75                 | 20.5                     | 0.047                   | 0.06                    | -0.07           |
| 20175                                       | 1732.5 | 50RB25    | Right         | /                | 19.73                 | 20.5                     | 0.046                   | 0.06                    | -0.03           |
| 20175                                       | 1732.5 | 1RB50     | Top           | /                | 19.75                 | 20.5                     | 0.570                   | 0.68                    | 0.08            |
| 20175                                       | 1732.5 | 50RB25    | Top           | /                | 19.73                 | 20.5                     | 0.609                   | 0.73                    | 0.02            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 20175                                       | 1732.5 | 1RB50     | Front         | /                | 21.65                 | 22.5                     | 0.380                   | 0.46                    | 0.03            |
| 20175                                       | 1732.5 | 50RB25    | Front         | /                | 21.60                 | 22.5                     | 0.402                   | 0.49                    | -0.03           |
| 20175                                       | 1732.5 | 1RB50     | Rear          | /                | 21.65                 | 22.5                     | 0.375                   | 0.46                    | 0.17            |
| 20175                                       | 1732.5 | 50RB25    | Rear          | /                | 21.60                 | 22.5                     | 0.377                   | 0.46                    | 0.05            |

**Table 13.15: SAR Values (LTE Band 5 - Head) - Ant.5**

| Frequency                 |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                       | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1/A2         |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525                     | 836.5 | 1RB24     | Left Cheek    | /                | 24.01                 | 25.0                     | 0.305                   | 0.38                    | 0.07            |
| 20525                     | 836.5 | 25RB12    | Left Cheek    | /                | 22.91                 | 24.0                     | 0.239                   | 0.31                    | 0.08            |
| 20525                     | 836.5 | 1RB24     | Left Tilt     | /                | 24.01                 | 25.0                     | 0.150                   | 0.19                    | 0.02            |
| 20525                     | 836.5 | 25RB12    | Left Tilt     | /                | 22.91                 | 24.0                     | 0.119                   | 0.15                    | 0.03            |
| 20525                     | 836.5 | 1RB24     | Right Cheek   | 11               | 24.01                 | 25.0                     | 0.332                   | 0.42                    | 0.09            |
| 20525                     | 836.5 | 25RB12    | Right Cheek   | /                | 22.91                 | 24.0                     | 0.253                   | 0.33                    | 0.05            |
| 20525                     | 836.5 | 1RB24     | Right Tilt    | /                | 24.01                 | 25.0                     | 0.169                   | 0.21                    | 0.03            |
| 20525                     | 836.5 | 25RB12    | Right Tilt    | /                | 22.91                 | 24.0                     | 0.133                   | 0.17                    | 0.12            |
| The worst case with CA_5B |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525                     | 836.5 | CA_5B     | Right Cheek   | /                | 23.96                 | 25.0                     | 0.324                   | 0.41                    | 0.05            |

**Table 13.16: SAR Values (LTE Band 5 - Body) - Ant.5**

| Frequency                                              |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|--------------------------------------------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                                    | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1/B2           |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525                                                  | 836.5 | 1RB24     | Front         | /                | 24.01                 | 25.0                     | 0.244                   | 0.31                    | -0.16           |
| 20525                                                  | 836.5 | 25RB12    | Front         | /                | 22.91                 | 24.0                     | 0.190                   | 0.24                    | 0.18            |
| 20525                                                  | 836.5 | 1RB24     | Rear          | 12               | 24.01                 | 25.0                     | 0.338                   | 0.42                    | 0.03            |
| 20525                                                  | 836.5 | 25RB12    | Rear          | /                | 22.91                 | 24.0                     | 0.266                   | 0.34                    | -0.03           |
| 20525                                                  | 836.5 | 1RB24     | Left          | /                | 24.01                 | 25.0                     | 0.198                   | 0.25                    | -0.15           |
| 20525                                                  | 836.5 | 25RB12    | Left          | /                | 22.91                 | 24.0                     | 0.154                   | 0.20                    | -0.11           |
| 20525                                                  | 836.5 | 1RB24     | Right         | /                | 24.01                 | 25.0                     | 0.285                   | 0.36                    | 0.04            |
| 20525                                                  | 836.5 | 25RB12    | Right         | /                | 22.91                 | 24.0                     | 0.224                   | 0.29                    | 0.03            |
| 20525                                                  | 836.5 | 1RB24     | Bottom        | /                | 24.01                 | 25.0                     | 0.048                   | 0.06                    | -0.15           |
| 20525                                                  | 836.5 | 25RB12    | Bottom        | /                | 22.91                 | 24.0                     | 0.045                   | 0.06                    | 0.18            |
| Hotspot Test Data (10mm) - The worst case with CA_5B   |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525                                                  | 836.5 | CA_5B     | Rear          | /                | 23.96                 | 25.0                     | 0.315                   | 0.40                    | 0.04            |
| Body-Worn Test Data (10mm) - Power Level C1/C2         |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525                                                  | 836.5 | 1RB24     | Front         | /                | 24.01                 | 25.0                     | 0.244                   | 0.31                    | -0.16           |
| 20525                                                  | 836.5 | 25RB12    | Front         | /                | 22.91                 | 24.0                     | 0.190                   | 0.24                    | 0.18            |
| 20525                                                  | 836.5 | 1RB24     | Rear          | /                | 24.01                 | 25.0                     | 0.338                   | 0.42                    | 0.03            |
| 20525                                                  | 836.5 | 25RB12    | Rear          | /                | 22.91                 | 24.0                     | 0.266                   | 0.34                    | -0.03           |
| Body-Worn Test Data (10mm) - The worst case with CA_5B |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525                                                  | 836.5 | CA_5B     | Rear          | /                | 23.96                 | 25.0                     | 0.315                   | 0.40                    | 0.04            |

**Table 13.17: SAR Values (LTE Band 5 - Head) - Ant.1**

| Frequency      |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525          | 836.5 | 1RB24     | Left Cheek    | /                | 23.28                 | 25.0                     | 0.306                   | 0.45                    | 0.05            |
| 20525          | 836.5 | 25RB25    | Left Cheek    | /                | 22.16                 | 24.0                     | 0.232                   | 0.35                    | 0.09            |
| 20525          | 836.5 | 1RB24     | Left Tilt     | /                | 23.28                 | 25.0                     | 0.265                   | 0.39                    | 0.03            |
| 20525          | 836.5 | 25RB25    | Left Tilt     | /                | 22.16                 | 24.0                     | 0.182                   | 0.28                    | 0.03            |
| 20525          | 836.5 | 1RB24     | Right Cheek   | /                | 23.28                 | 25.0                     | 0.395                   | 0.59                    | -0.03           |
| 20525          | 836.5 | 25RB25    | Right Cheek   | /                | 22.16                 | 24.0                     | 0.343                   | 0.52                    | 0.03            |
| 20525          | 836.5 | 1RB24     | Right Tilt    | /                | 23.28                 | 25.0                     | 0.320                   | 0.48                    | 0.09            |
| 20525          | 836.5 | 25RB25    | Right Tilt    | /                | 22.16                 | 24.0                     | 0.265                   | 0.40                    | 0.14            |

**Table 13.18: SAR Values (LTE Band 5 - Body) - Ant.1**

| Frequency                                   |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525                                       | 836.5 | 1RB24     | Front         | /                | 23.28                 | 25.0                     | 0.106                   | 0.16                    | 0.11            |
| 20525                                       | 836.5 | 25RB25    | Front         | /                | 22.16                 | 24.0                     | 0.082                   | 0.13                    | -0.04           |
| 20525                                       | 836.5 | 1RB24     | Rear          | /                | 23.28                 | 25.0                     | 0.114                   | 0.17                    | 0.13            |
| 20525                                       | 836.5 | 25RB25    | Rear          | /                | 22.16                 | 24.0                     | 0.086                   | 0.13                    | 0.16            |
| 20525                                       | 836.5 | 1RB24     | Left          | /                | 23.28                 | 25.0                     | 0.049                   | 0.07                    | -0.05           |
| 20525                                       | 836.5 | 25RB25    | Left          | /                | 22.16                 | 24.0                     | 0.031                   | 0.05                    | 0.05            |
| 20525                                       | 836.5 | 1RB24     | Right         | /                | 23.28                 | 25.0                     | 0.005                   | 0.01                    | 0.18            |
| 20525                                       | 836.5 | 25RB25    | Right         | /                | 22.16                 | 24.0                     | 0.003                   | 0.00                    | -0.07           |
| 20525                                       | 836.5 | 1RB24     | Top           | /                | 23.28                 | 25.0                     | 0.010                   | 0.02                    | 0.11            |
| 20525                                       | 836.5 | 25RB25    | Top           | /                | 22.16                 | 24.0                     | 0.073                   | 0.11                    | 0.05            |
| Body-Worn Test Data (10mm) - Power Level C2 |       |           |               |                  |                       |                          |                         |                         |                 |
| 20525                                       | 836.5 | 1RB24     | Front         | /                | 23.28                 | 25.0                     | 0.106                   | 0.16                    | 0.11            |
| 20525                                       | 836.5 | 25RB25    | Front         | /                | 22.16                 | 24.0                     | 0.082                   | 0.13                    | -0.04           |
| 20525                                       | 836.5 | 1RB24     | Rear          | /                | 23.28                 | 25.0                     | 0.114                   | 0.17                    | 0.13            |
| 20525                                       | 836.5 | 25RB25    | Rear          | /                | 22.16                 | 24.0                     | 0.086                   | 0.13                    | 0.16            |



**Table 13.19: SAR Values (LTE Band 12 - Head)**

| Frequency      |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1 |       |           |               |                  |                       |                          |                         |                         |                 |
| 23095          | 707.5 | 1RB24     | Left Cheek    | /                | 23.98                 | 25.0                     | 0.089                   | 0.11                    | 0.02            |
| 23095          | 707.5 | 25RB25    | Left Cheek    | /                | 22.93                 | 24.0                     | 0.071                   | 0.09                    | 0.14            |
| 23095          | 707.5 | 1RB24     | Left Tilt     | /                | 23.98                 | 25.0                     | 0.045                   | 0.06                    | 0.03            |
| 23095          | 707.5 | 25RB25    | Left Tilt     | /                | 22.93                 | 24.0                     | 0.036                   | 0.05                    | 0.05            |
| 23095          | 707.5 | 1RB24     | Right Cheek   | 13               | 23.98                 | 25.0                     | 0.115                   | 0.15                    | 0.06            |
| 23095          | 707.5 | 25RB25    | Right Cheek   | /                | 22.93                 | 24.0                     | 0.088                   | 0.11                    | 0.13            |
| 23095          | 707.5 | 1RB24     | Right Tilt    | /                | 23.98                 | 25.0                     | 0.065                   | 0.08                    | 0.09            |
| 23095          | 707.5 | 25RB25    | Right Tilt    | /                | 22.93                 | 24.0                     | 0.053                   | 0.07                    | 0.19            |

**Table 13.20: SAR Values (LTE Band 12 - Body)**

| Frequency                                   |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1   |       |           |               |                  |                       |                          |                         |                         |                 |
| 23095                                       | 707.5 | 1RB24     | Front         | /                | 23.98                 | 25.0                     | 0.124                   | 0.16                    | -0.13           |
| 23095                                       | 707.5 | 25RB25    | Front         | /                | 22.93                 | 24.0                     | 0.102                   | 0.13                    | -0.14           |
| 23095                                       | 707.5 | 1RB24     | Rear          | 14               | 23.98                 | 25.0                     | 0.230                   | 0.29                    | 0.08            |
| 23095                                       | 707.5 | 25RB25    | Rear          | /                | 22.93                 | 24.0                     | 0.178                   | 0.23                    | -0.02           |
| 23095                                       | 707.5 | 1RB24     | Left          | /                | 23.98                 | 25.0                     | 0.145                   | 0.18                    | 0.08            |
| 23095                                       | 707.5 | 25RB25    | Left          | /                | 22.93                 | 24.0                     | 0.117                   | 0.15                    | -0.18           |
| 23095                                       | 707.5 | 1RB24     | Right         | /                | 23.98                 | 25.0                     | 0.171                   | 0.22                    | 0.04            |
| 23095                                       | 707.5 | 25RB25    | Right         | /                | 22.93                 | 24.0                     | 0.136                   | 0.17                    | -0.07           |
| 23095                                       | 707.5 | 1RB24     | Bottom        | /                | 23.98                 | 25.0                     | 0.025                   | 0.03                    | -0.07           |
| 23095                                       | 707.5 | 25RB25    | Bottom        | /                | 22.93                 | 24.0                     | 0.017                   | 0.02                    | 0.03            |
| Body-Worn Test Data (10mm) - Power Level C1 |       |           |               |                  |                       |                          |                         |                         |                 |
| 23095                                       | 707.5 | 1RB24     | Front         | /                | 23.98                 | 25.0                     | 0.124                   | 0.16                    | -0.13           |
| 23095                                       | 707.5 | 25RB25    | Front         | /                | 22.93                 | 24.0                     | 0.102                   | 0.13                    | -0.14           |
| 23095                                       | 707.5 | 1RB24     | Rear          | /                | 23.98                 | 25.0                     | 0.230                   | 0.29                    | 0.08            |
| 23095                                       | 707.5 | 25RB25    | Rear          | /                | 22.93                 | 24.0                     | 0.178                   | 0.23                    | -0.02           |

**Table 13.21: SAR Values (LTE Band 13 - Head) - Ant.5**

| Frequency         |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|-------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.               | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1/A2 |       |           |               |                  |                       |                          |                         |                         |                 |
| 23230             | 782.0 | 1RB24     | Left Cheek    | /                | 23.89                 | 25.0                     | 0.201                   | 0.26                    | 0.15            |
| 23230             | 782.0 | 25RB25    | Left Cheek    | /                | 22.81                 | 24.0                     | 0.166                   | 0.22                    | 0.03            |
| 23230             | 782.0 | 1RB24     | Left Tilt     | /                | 23.89                 | 25.0                     | 0.097                   | 0.12                    | 0.02            |
| 23230             | 782.0 | 25RB25    | Left Tilt     | /                | 22.81                 | 24.0                     | 0.085                   | 0.11                    | 0.19            |
| 23230             | 782.0 | 1RB24     | Right Cheek   | 15               | 23.89                 | 25.0                     | 0.247                   | 0.32                    | 0.04            |
| 23230             | 782.0 | 25RB25    | Right Cheek   | /                | 22.81                 | 24.0                     | 0.194                   | 0.26                    | 0.17            |
| 23230             | 782.0 | 1RB24     | Right Tilt    | /                | 23.89                 | 25.0                     | 0.108                   | 0.14                    | 0.02            |
| 23230             | 782.0 | 25RB25    | Right Tilt    | /                | 22.81                 | 24.0                     | 0.092                   | 0.12                    | 0.09            |

**Table 13.22: SAR Values (LTE Band 13 - Body) - Ant.5**

| Frequency                                      |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|------------------------------------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                            | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1/B2   |       |           |               |                  |                       |                          |                         |                         |                 |
| 23230                                          | 782.0 | 1RB24     | Front         | /                | 23.89                 | 25.0                     | 0.188                   | 0.24                    | -0.11           |
| 23230                                          | 782.0 | 25RB25    | Front         | /                | 22.81                 | 24.0                     | 0.153                   | 0.20                    | 0.06            |
| 23230                                          | 782.0 | 1RB24     | Rear          | 16               | 23.89                 | 25.0                     | 0.275                   | 0.36                    | 0.02            |
| 23230                                          | 782.0 | 25RB25    | Rear          | /                | 22.81                 | 24.0                     | 0.232                   | 0.31                    | 0.04            |
| 23230                                          | 782.0 | 1RB24     | Left          | /                | 23.89                 | 25.0                     | 0.128                   | 0.17                    | 0.03            |
| 23230                                          | 782.0 | 25RB25    | Left          | /                | 22.81                 | 24.0                     | 0.124                   | 0.16                    | -0.18           |
| 23230                                          | 782.0 | 1RB24     | Right         | /                | 23.89                 | 25.0                     | 0.203                   | 0.26                    | -0.11           |
| 23230                                          | 782.0 | 25RB25    | Right         | /                | 22.81                 | 24.0                     | 0.181                   | 0.24                    | 0.19            |
| 23230                                          | 782.0 | 1RB24     | Bottom        | /                | 23.89                 | 25.0                     | 0.012                   | 0.02                    | -0.14           |
| 23230                                          | 782.0 | 25RB25    | Bottom        | /                | 22.81                 | 24.0                     | 0.008                   | 0.01                    | 0.18            |
| Body-Worn Test Data (10mm) - Power Level C1/C2 |       |           |               |                  |                       |                          |                         |                         |                 |
| 23230                                          | 782.0 | 1RB24     | Front         | /                | 23.89                 | 25.0                     | 0.188                   | 0.24                    | -0.11           |
| 23230                                          | 782.0 | 25RB25    | Front         | /                | 22.81                 | 24.0                     | 0.153                   | 0.20                    | 0.06            |
| 23230                                          | 782.0 | 1RB24     | Rear          | /                | 23.89                 | 25.0                     | 0.275                   | 0.36                    | 0.02            |
| 23230                                          | 782.0 | 25RB25    | Rear          | /                | 22.81                 | 24.0                     | 0.232                   | 0.31                    | 0.04            |

**Table 13.23: SAR Values (LTE Band 13 - Head) - Ant.1**

| Frequency      |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |       |           |               |                  |                       |                          |                         |                         |                 |
| 23230          | 782.0 | 1RB24     | Left Cheek    | /                | 18.28                 | 19.5                     | 0.320                   | 0.42                    | 0.05            |
| 23230          | 782.0 | 25RB25    | Left Cheek    | /                | 18.20                 | 19.5                     | 0.274                   | 0.37                    | -0.11           |
| 23230          | 782.0 | 1RB24     | Left Tilt     | /                | 18.28                 | 19.5                     | 0.278                   | 0.37                    | 0.03            |
| 23230          | 782.0 | 25RB25    | Left Tilt     | /                | 18.20                 | 19.5                     | 0.245                   | 0.33                    | 0.01            |
| 23230          | 782.0 | 1RB24     | Right Cheek   | /                | 18.28                 | 19.5                     | 0.394                   | 0.52                    | 0.09            |
| 23230          | 782.0 | 25RB25    | Right Cheek   | /                | 18.20                 | 19.5                     | 0.337                   | 0.45                    | 0.07            |
| 23230          | 782.0 | 1RB24     | Right Tilt    | /                | 18.28                 | 19.5                     | 0.308                   | 0.41                    | 0.02            |
| 23230          | 782.0 | 25RB25    | Right Tilt    | /                | 18.20                 | 19.5                     | 0.271                   | 0.37                    | 0.12            |

**Table 13.24: SAR Values (LTE Band 13 - Body) - Ant.1**

| Frequency                                   |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |       |           |               |                  |                       |                          |                         |                         |                 |
| 23230                                       | 782.0 | 1RB24     | Front         | /                | 23.26                 | 24.5                     | 0.382                   | 0.51                    | 0.04            |
| 23230                                       | 782.0 | 25RB25    | Front         | /                | 22.20                 | 23.5                     | 0.302                   | 0.41                    | 0.12            |
| 23230                                       | 782.0 | 1RB24     | Rear          | /                | 23.26                 | 24.5                     | 0.407                   | 0.54                    | 0.02            |
| 23230                                       | 782.0 | 25RB25    | Rear          | /                | 22.20                 | 23.5                     | 0.337                   | 0.45                    | 0.03            |
| 23230                                       | 782.0 | 1RB24     | Left          | /                | 23.26                 | 24.5                     | 0.248                   | 0.33                    | 0.10            |
| 23230                                       | 782.0 | 25RB25    | Left          | /                | 22.20                 | 23.5                     | 0.197                   | 0.27                    | -0.17           |
| 23230                                       | 782.0 | 1RB24     | Right         | /                | 23.26                 | 24.5                     | 0.193                   | 0.26                    | -0.12           |
| 23230                                       | 782.0 | 25RB25    | Right         | /                | 22.20                 | 23.5                     | 0.153                   | 0.21                    | -0.03           |
| 23230                                       | 782.0 | 1RB24     | Top           | /                | 23.26                 | 24.5                     | 0.362                   | 0.48                    | 0.05            |
| 23230                                       | 782.0 | 25RB25    | Top           | /                | 22.20                 | 23.5                     | 0.280                   | 0.38                    | 0.10            |
| Body-Worn Test Data (15mm) - Power Level C2 |       |           |               |                  |                       |                          |                         |                         |                 |
| 23230                                       | 782.0 | 1RB24     | Front         | /                | 23.26                 | 24.5                     | 0.234                   | 0.31                    | 0.03            |
| 23230                                       | 782.0 | 25RB25    | Front         | /                | 22.20                 | 23.5                     | 0.190                   | 0.26                    | 0.12            |
| 23230                                       | 782.0 | 1RB24     | Rear          | /                | 23.26                 | 24.5                     | 0.239                   | 0.32                    | 0.07            |
| 23230                                       | 782.0 | 25RB25    | Rear          | /                | 22.20                 | 23.5                     | 0.187                   | 0.25                    | 0.05            |

**Table 13.25: SAR Values (LTE Band 66 - Head) - Ant.5**

| Frequency                           |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|-------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                 | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A1/A2                   |        |           |               |                  |                       |                          |                         |                         |                 |
| 132572                              | 1770.0 | 1RB50     | Left Cheek    | /                | 22.95                 | 24.5                     | 0.092                   | 0.13                    | 0.03            |
| 132572                              | 1770.0 | 50RB0     | Left Cheek    | /                | 22.07                 | 23.5                     | 0.070                   | 0.10                    | 0.07            |
| 132572                              | 1770.0 | 1RB50     | Left Tilt     | /                | 22.95                 | 24.5                     | 0.069                   | 0.10                    | 0.05            |
| 132572                              | 1770.0 | 50RB0     | Left Tilt     | /                | 22.07                 | 23.5                     | 0.052                   | 0.07                    | 0.08            |
| 132572                              | 1770.0 | 1RB50     | Right Cheek   | 17               | 22.95                 | 24.5                     | 0.138                   | 0.20                    | 0.17            |
| 132572                              | 1770.0 | 50RB0     | Right Cheek   | /                | 22.07                 | 23.5                     | 0.106                   | 0.15                    | 0.02            |
| 132572                              | 1770.0 | 1RB50     | Right Tilt    | /                | 22.95                 | 24.5                     | 0.051                   | 0.07                    | 0.03            |
| 132572                              | 1770.0 | 50RB0     | Right Tilt    | /                | 22.07                 | 23.5                     | 0.040                   | 0.06                    | 0.15            |
| The worst case with CA_66B & CA_66C |        |           |               |                  |                       |                          |                         |                         |                 |
| 132022                              | 1715.0 | CA_66B    | Right Cheek   | /                | 23.03                 | 24.5                     | 0.134                   | 0.19                    | 0.06            |
| 132572                              | 1770.0 | CA_66C    | Right Cheek   | /                | 22.90                 | 24.5                     | 0.122                   | 0.18                    | 0.02            |

**Table 13.26: SAR Values (LTE Band 66 - Body) - Ant.5**

| Frequency                                                        |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|------------------------------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                                              | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B1/B2                     |        |           |               |                  |                       |                          |                         |                         |                 |
| 132572                                                           | 1770.0 | 1RB50     | Front         | /                | 18.39                 | 19.5                     | 0.469                   | 0.61                    | -0.11           |
| 132572                                                           | 1770.0 | 50RB0     | Front         | /                | 17.25                 | 18.5                     | 0.373                   | 0.50                    | 0.15            |
| 132572                                                           | 1770.0 | 1RB50     | Rear          | /                | 18.39                 | 19.5                     | 0.515                   | 0.66                    | 0.02            |
| 132572                                                           | 1770.0 | 50RB0     | Rear          | /                | 17.25                 | 18.5                     | 0.429                   | 0.57                    | 0.05            |
| 132572                                                           | 1770.0 | 1RB50     | Left          | /                | 18.39                 | 19.5                     | 0.041                   | 0.05                    | -0.19           |
| 132572                                                           | 1770.0 | 50RB0     | Left          | /                | 17.25                 | 18.5                     | 0.032                   | 0.04                    | -0.10           |
| 132572                                                           | 1770.0 | 1RB50     | Right         | /                | 18.39                 | 19.5                     | 0.090                   | 0.12                    | -0.17           |
| 132572                                                           | 1770.0 | 50RB0     | Right         | /                | 17.25                 | 18.5                     | 0.073                   | 0.10                    | 0.10            |
| 132572                                                           | 1770.0 | 1RB50     | Bottom        | 18               | 18.39                 | 19.5                     | 0.611                   | 0.79                    | 0.14            |
| 132572                                                           | 1770.0 | 50RB0     | Bottom        | /                | 17.25                 | 18.5                     | 0.501                   | 0.67                    | 0.10            |
| Hotspot Test Data (10mm) - The worst case with CA_66B & CA_66C   |        |           |               |                  |                       |                          |                         |                         |                 |
| 132322                                                           | 1745.0 | CA_66B    | Bottom        | /                | 18.34                 | 19.5                     | 0.595                   | 0.78                    | -0.03           |
| 132572                                                           | 1770.0 | CA_66C    | Bottom        | /                | 18.30                 | 19.5                     | 0.584                   | 0.77                    | -0.05           |
| Body-Worn Test Data (15mm) - Power Level C1/C2                   |        |           |               |                  |                       |                          |                         |                         |                 |
| 132572                                                           | 1770.0 | 1RB50     | Front         | /                | 20.68                 | 22.0                     | 0.374                   | 0.51                    | -0.19           |
| 132572                                                           | 1770.0 | 50RB0     | Front         | /                | 19.81                 | 21.0                     | 0.293                   | 0.39                    | 0.06            |
| 132572                                                           | 1770.0 | 1RB50     | Rear          | /                | 20.68                 | 22.0                     | 0.464                   | 0.63                    | 0.03            |
| 132572                                                           | 1770.0 | 50RB0     | Rear          | /                | 19.81                 | 21.0                     | 0.403                   | 0.53                    | -0.18           |
| Body-Worn Test Data (15mm) - The worst case with CA_66B & CA_66C |        |           |               |                  |                       |                          |                         |                         |                 |
| 132022                                                           | 1715.0 | CA_66B    | Rear          | /                | 20.66                 | 22.0                     | 0.449                   | 0.61                    | -0.05           |
| 132572                                                           | 1770.0 | CA_66C    | Rear          | /                | 20.62                 | 22.0                     | 0.428                   | 0.59                    | 0.07            |

**Table 13.27: SAR Values (LTE Band 66 - Head) - Ant.1**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 132322         | 1745.0 | 1RB50     | Left Cheek    | /                | 14.25                 | 15.0                     | 0.384                   | 0.46                    | 0.02            |
| 132322         | 1745.0 | 50RB25    | Left Cheek    | /                | 14.22                 | 15.0                     | 0.386                   | 0.46                    | 0.03            |
| 132322         | 1745.0 | 1RB50     | Left Tilt     | /                | 14.25                 | 15.0                     | 0.411                   | 0.49                    | 0.19            |
| 132322         | 1745.0 | 50RB25    | Left Tilt     | /                | 14.22                 | 15.0                     | 0.413                   | 0.49                    | 0.17            |
| 132322         | 1745.0 | 1RB50     | Right Cheek   | /                | 14.25                 | 15.0                     | 0.606                   | 0.72                    | -0.08           |
| 132322         | 1745.0 | 50RB25    | Right Cheek   | /                | 14.22                 | 15.0                     | 0.603                   | 0.72                    | -0.04           |
| 132322         | 1745.0 | 1RB50     | Right Tilt    | /                | 14.25                 | 15.0                     | 0.614                   | 0.73                    | 0.06            |
| 132322         | 1745.0 | 50RB25    | Right Tilt    | /                | 14.22                 | 15.0                     | 0.648                   | 0.78                    | -0.12           |

**Table 13.28: SAR Values (LTE Band 66 - Body) - Ant.1**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 132322                                      | 1745.0 | 1RB50     | Front         | /                | 19.29                 | 20.0                     | 0.412                   | 0.49                    | -0.18           |
| 132322                                      | 1745.0 | 50RB25    | Front         | /                | 19.26                 | 20.0                     | 0.421                   | 0.50                    | -0.11           |
| 132322                                      | 1745.0 | 1RB50     | Rear          | /                | 19.29                 | 20.0                     | 0.423                   | 0.50                    | 0.12            |
| 132322                                      | 1745.0 | 50RB25    | Rear          | /                | 19.26                 | 20.0                     | 0.427                   | 0.51                    | 0.07            |
| 132322                                      | 1745.0 | 1RB50     | Left          | /                | 19.29                 | 20.0                     | 0.089                   | 0.10                    | -0.07           |
| 132322                                      | 1745.0 | 50RB25    | Left          | /                | 19.26                 | 20.0                     | 0.089                   | 0.11                    | 0.13            |
| 132322                                      | 1745.0 | 1RB50     | Right         | /                | 19.29                 | 20.0                     | 0.044                   | 0.05                    | -0.05           |
| 132322                                      | 1745.0 | 50RB25    | Right         | /                | 19.26                 | 20.0                     | 0.046                   | 0.05                    | 0.13            |
| 132322                                      | 1745.0 | 1RB50     | Top           | /                | 19.29                 | 20.0                     | 0.583                   | 0.69                    | 0.09            |
| 132322                                      | 1745.0 | 50RB25    | Top           | /                | 19.26                 | 20.0                     | 0.601                   | 0.71                    | -0.02           |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 132322                                      | 1745.0 | 1RB50     | Front         | /                | 21.17                 | 22.0                     | 0.338                   | 0.41                    | -0.03           |
| 132322                                      | 1745.0 | 50RB25    | Front         | /                | 21.12                 | 22.0                     | 0.355                   | 0.43                    | -0.04           |
| 132322                                      | 1745.0 | 1RB50     | Rear          | /                | 21.17                 | 22.0                     | 0.311                   | 0.38                    | 0.19            |
| 132322                                      | 1745.0 | 50RB25    | Rear          | /                | 21.12                 | 22.0                     | 0.356                   | 0.44                    | 0.06            |

### 13.3. Test Results for SUB 6G

Note: For this device, NR n77 band support PC3 and PC2 with same 100% duty cycle, so we choose PC2 for SAR test.

**Table 13.29: SAR Values (NR n2 - Head)**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 376000         | 1880.0 | 50@25     | Left Cheek    | /                | 23.28                 | 24.5                     | 0.084                   | 0.11                    | 0.05            |
| 376000         | 1880.0 | 50@25     | Left Tilt     | /                | 23.28                 | 24.5                     | 0.072                   | 0.10                    | 0.06            |
| 376000         | 1880.0 | 50@25     | Right Cheek   | 19               | 23.28                 | 24.5                     | 0.112                   | 0.15                    | 0.09            |
| 376000         | 1880.0 | 50@25     | Right Tilt    | /                | 23.28                 | 24.5                     | 0.051                   | 0.07                    | 0.08            |

**Table 13.30: SAR Values (NR n2 - Body)**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 376000                                      | 1880.0 | 50@25     | Front         | /                | 18.81                 | 20.0                     | 0.291                   | 0.38                    | 0.12            |
| 376000                                      | 1880.0 | 50@25     | Rear          | /                | 18.81                 | 20.0                     | 0.320                   | 0.42                    | 0.02            |
| 376000                                      | 1880.0 | 50@25     | Left          | /                | 18.81                 | 20.0                     | 0.046                   | 0.06                    | 0.04            |
| 376000                                      | 1880.0 | 50@25     | Right         | /                | 18.81                 | 20.0                     | 0.039                   | 0.05                    | -0.19           |
| 376000                                      | 1880.0 | 50@25     | Bottom        | 20               | 18.81                 | 20.0                     | 0.548                   | 0.72                    | -0.09           |
| Body-Worn Test Data (10mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 376000                                      | 1880.0 | 50@25     | Front         | /                | 18.81                 | 20.0                     | 0.291                   | 0.38                    | 0.12            |
| 376000                                      | 1880.0 | 50@25     | Rear          | /                | 18.81                 | 20.0                     | 0.320                   | 0.42                    | 0.02            |

**Table 13.31: SAR Values (NR n5 - Head)**

| Frequency      |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |       |           |               |                  |                       |                          |                         |                         |                 |
| 167300         | 836.5 | 50@25     | Left Cheek    | /                | 23.82                 | 25.0                     | 0.321                   | 0.42                    | 0.05            |
| 167300         | 836.5 | 50@25     | Left Tilt     | /                | 23.82                 | 25.0                     | 0.157                   | 0.21                    | -0.11           |
| 167300         | 836.5 | 50@25     | Right Cheek   | 21               | 23.82                 | 25.0                     | 0.369                   | 0.48                    | 0.03            |
| 167300         | 836.5 | 50@25     | Right Tilt    | /                | 23.82                 | 25.0                     | 0.163                   | 0.21                    | 0.03            |

**Table 13.32: SAR Values (NR n5 - Body)**

| Frequency                                   |       | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|-------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz   |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |       |           |               |                  |                       |                          |                         |                         |                 |
| 167300                                      | 836.5 | 50@25     | Front         | /                | 23.82                 | 25.0                     | 0.320                   | 0.42                    | 0.14            |
| 167300                                      | 836.5 | 50@25     | Rear          | 22               | 23.82                 | 25.0                     | 0.434                   | 0.57                    | -0.07           |
| 167300                                      | 836.5 | 50@25     | Left          | /                | 23.82                 | 25.0                     | 0.004                   | 0.00                    | 0.05            |
| 167300                                      | 836.5 | 50@25     | Right         | /                | 23.82                 | 25.0                     | 0.209                   | 0.27                    | 0.11            |
| 167300                                      | 836.5 | 50@25     | Bottom        | /                | 23.82                 | 25.0                     | 0.082                   | 0.11                    | -0.03           |
| Body-Worn Test Data (15mm) - Power Level C2 |       |           |               |                  |                       |                          |                         |                         |                 |
| 167300                                      | 836.5 | 50@25     | Front         | /                | 23.82                 | 25.0                     | 0.316                   | 0.41                    | 0.04            |
| 167300                                      | 836.5 | 50@25     | Rear          | /                | 23.82                 | 25.0                     | 0.391                   | 0.51                    | 0.01            |



**Table 13.33: SAR Values (NR n66 - Head)**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 349000         | 1745.0 | 108@54    | Left Cheek    | /                | 23.08                 | 24.5                     | 0.086                   | 0.12                    | 0.02            |
| 349000         | 1745.0 | 108@54    | Left Tilt     | /                | 23.08                 | 24.5                     | 0.054                   | 0.07                    | -0.18           |
| 349000         | 1745.0 | 108@54    | Right Cheek   | 23               | 23.08                 | 24.5                     | 0.137                   | 0.19                    | 0.11            |
| 349000         | 1745.0 | 108@54    | Right Tilt    | /                | 23.08                 | 24.5                     | 0.049                   | 0.07                    | 0.08            |

**Table 13.34: SAR Values (NR n66 - Body)**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 349000                                      | 1745.0 | 108@54    | Front         | /                | 17.11                 | 18.5                     | 0.298                   | 0.41                    | -0.10           |
| 349000                                      | 1745.0 | 108@54    | Rear          | /                | 17.11                 | 18.5                     | 0.398                   | 0.55                    | 0.06            |
| 349000                                      | 1745.0 | 108@54    | Left          | /                | 17.11                 | 18.5                     | 0.021                   | 0.03                    | 0.12            |
| 349000                                      | 1745.0 | 108@54    | Right         | /                | 17.11                 | 18.5                     | 0.028                   | 0.04                    | -0.15           |
| 349000                                      | 1745.0 | 108@54    | Bottom        | 24               | 17.11                 | 18.5                     | 0.534                   | 0.74                    | 0.12            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 349000                                      | 1745.0 | 108@54    | Front         | /                | 18.62                 | 20.0                     | 0.217                   | 0.30                    | 0.04            |
| 349000                                      | 1745.0 | 108@54    | Rear          | /                | 18.62                 | 20.0                     | 0.290                   | 0.40                    | -0.07           |

**Table 13.35: SAR Values (NR n77 PC2 Part 27Q - Head) - Ant.6**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334         | 3500.0 | 135@67    | Left Cheek    | /                | 15.11                 | 16.0                     | 0.219                   | 0.27                    | 0.03            |
| 633334         | 3500.0 | 135@67    | Left Tilt     | /                | 15.11                 | 16.0                     | 0.169                   | 0.21                    | 0.19            |
| 633334         | 3500.0 | 135@67    | Right Cheek   | 25               | 15.11                 | 16.0                     | 0.563                   | 0.69                    | 0.02            |
| 633334         | 3500.0 | 135@67    | Right Tilt    | /                | 15.11                 | 16.0                     | 0.349                   | 0.43                    | -0.01           |

**Table 13.36: SAR Values (NR n77 PC2 Part 27Q - Head) - Ant.4**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334         | 3500.0 | 135@67    | Left Cheek    | /                | 22.54                 | 23.5                     | 0.409                   | 0.51                    | 0.09            |
| 633334         | 3500.0 | 135@67    | Left Tilt     | /                | 22.54                 | 23.5                     | 0.218                   | 0.27                    | -0.06           |
| 633334         | 3500.0 | 135@67    | Right Cheek   | /                | 22.54                 | 23.5                     | 0.243                   | 0.30                    | -0.01           |
| 633334         | 3500.0 | 135@67    | Right Tilt    | /                | 22.54                 | 23.5                     | 0.348                   | 0.43                    | 0.09            |

**Table 13.37: SAR Values (NR n77 PC2 Part 27Q - Head) - Ant.3**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334         | 3500.0 | 135@67    | Left Cheek    | /                | 25.26                 | 27.0                     | 0.212                   | 0.32                    | 0.19            |
| 633334         | 3500.0 | 135@67    | Left Tilt     | /                | 25.26                 | 27.0                     | 0.124                   | 0.19                    | 0.02            |
| 633334         | 3500.0 | 135@67    | Right Cheek   | /                | 25.26                 | 27.0                     | 0.116                   | 0.17                    | 0.04            |
| 633334         | 3500.0 | 135@67    | Right Tilt    | /                | 25.26                 | 27.0                     | 0.076                   | 0.11                    | -0.11           |

**Table 13.38: SAR Values (NR n77 PC2 Part 27Q - Head) - Ant.2**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334         | 3500.0 | 135@67    | Left Cheek    | /                | 20.78                 | 21.5                     | 0.290                   | 0.34                    | -0.09           |
| 633334         | 3500.0 | 135@67    | Left Tilt     | /                | 20.78                 | 21.5                     | 0.102                   | 0.12                    | 0.01            |
| 633334         | 3500.0 | 135@67    | Right Cheek   | /                | 20.78                 | 21.5                     | 0.476                   | 0.56                    | 0.18            |
| 633334         | 3500.0 | 135@67    | Right Tilt    | /                | 20.78                 | 21.5                     | 0.156                   | 0.18                    | 0.00            |

**Table 13.39: SAR Values (NR n77 PC2 Part 27Q - Body) - Ant.6**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334                                      | 3500.0 | 135@67    | Front         | /                | 18.56                 | 19.5                     | 0.244                   | 0.30                    | -0.15           |
| 633334                                      | 3500.0 | 135@67    | Rear          | /                | 18.56                 | 19.5                     | 0.401                   | 0.50                    | -0.09           |
| 633334                                      | 3500.0 | 135@67    | Left          | /                | 18.56                 | 19.5                     | 0.234                   | 0.29                    | -0.01           |
| 633334                                      | 3500.0 | 135@67    | Right         | /                | 18.56                 | 19.5                     | 0.025                   | 0.03                    | 0.18            |
| 633334                                      | 3500.0 | 135@67    | Top           | /                | 18.56                 | 19.5                     | 0.123                   | 0.15                    | -0.12           |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334                                      | 3500.0 | 135@67    | Front         | /                | 20.03                 | 21.0                     | 0.227                   | 0.28                    | 0.08            |
| 633334                                      | 3500.0 | 135@67    | Rear          | /                | 20.03                 | 21.0                     | 0.254                   | 0.32                    | 0.06            |

**Table 13.40: SAR Values (NR n77 PC2 Part 27Q - Body) - Ant.4**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334                                      | 3500.0 | 135@67    | Front         | /                | 21.52                 | 22.5                     | 0.452                   | 0.57                    | 0.11            |
| 633334                                      | 3500.0 | 135@67    | Rear          | /                | 21.52                 | 22.5                     | 0.533                   | 0.67                    | 0.12            |
| 633334                                      | 3500.0 | 135@67    | Left          | 26               | 21.52                 | 22.5                     | 0.545                   | 0.68                    | 0.19            |
| 633334                                      | 3500.0 | 135@67    | Right         | /                | 21.52                 | 22.5                     | 0.064                   | 0.08                    | -0.12           |
| 633334                                      | 3500.0 | 135@67    | Top           | /                | 21.52                 | 22.5                     | 0.073                   | 0.09                    | 0.12            |
| 633334                                      | 3500.0 | 135@67    | Bottom        | /                | 21.52                 | 22.5                     | 0.309                   | 0.39                    | 0.02            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334                                      | 3500.0 | 135@67    | Front         | /                | 23.55                 | 24.5                     | 0.323                   | 0.40                    | 0.04            |
| 633334                                      | 3500.0 | 135@67    | Rear          | /                | 23.55                 | 24.5                     | 0.440                   | 0.55                    | -0.08           |

**Table 13.41: SAR Values (NR n77 PC2 Part 27Q - Body) - Ant.3**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334                                      | 3500.0 | 135@67    | Front         | /                | 22.27                 | 23.5                     | 0.050                   | 0.07                    | -0.14           |
| 633334                                      | 3500.0 | 135@67    | Rear          | /                | 22.27                 | 23.5                     | 0.521                   | 0.69                    | 0.18            |
| 633334                                      | 3500.0 | 135@67    | Left          | /                | 22.27                 | 23.5                     | 0.021                   | 0.03                    | 0.05            |
| 633334                                      | 3500.0 | 135@67    | Right         | /                | 22.27                 | 23.5                     | 0.317                   | 0.42                    | 0.07            |
| 633334                                      | 3500.0 | 135@67    | Top           | /                | 22.27                 | 23.5                     | 0.212                   | 0.28                    | -0.03           |
| 633334                                      | 3500.0 | 135@67    | Bottom        | /                | 22.27                 | 23.5                     | 0.036                   | 0.05                    | -0.06           |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334                                      | 3500.0 | 135@67    | Front         | /                | 24.35                 | 25.5                     | 0.045                   | 0.06                    | 0.09            |
| 633334                                      | 3500.0 | 135@67    | Rear          | /                | 24.35                 | 25.5                     | 0.325                   | 0.42                    | 0.03            |

**Table 13.42: SAR Values (NR n77 PC2 Part 27Q - Body) - Ant.2**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334                                      | 3500.0 | 135@67    | Front         | /                | 20.78                 | 21.5                     | 0.130                   | 0.15                    | 0.05            |
| 633334                                      | 3500.0 | 135@67    | Rear          | /                | 20.78                 | 21.5                     | 0.426                   | 0.50                    | -0.13           |
| 633334                                      | 3500.0 | 135@67    | Left          | /                | 20.78                 | 21.5                     | 0.342                   | 0.40                    | 0.09            |
| 633334                                      | 3500.0 | 135@67    | Right         | /                | 20.78                 | 21.5                     | 0.021                   | 0.02                    | 0.12            |
| 633334                                      | 3500.0 | 135@67    | Top           | /                | 20.78                 | 21.5                     | 0.065                   | 0.08                    | 0.02            |
| 633334                                      | 3500.0 | 135@67    | Bottom        | /                | 20.78                 | 21.5                     | 0.019                   | 0.02                    | 0.04            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 633334                                      | 3500.0 | 135@67    | Front         | /                | 23.74                 | 24.5                     | 0.127                   | 0.15                    | -0.03           |
| 633334                                      | 3500.0 | 135@67    | Rear          | /                | 23.74                 | 24.5                     | 0.454                   | 0.54                    | 0.07            |

**Table 13.43: SAR Values (NR n77 PC2 Part 270 - Head) - Ant.6**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000         | 3840.0 | 135@67    | Left Cheek    | /                | 14.46                 | 15.0                     | 0.174                   | 0.20                    | -0.02           |
| 656000         | 3840.0 | 135@67    | Left Tilt     | /                | 14.46                 | 15.0                     | 0.138                   | 0.16                    | 0.08            |
| 656000         | 3840.0 | 135@67    | Right Cheek   | 27               | 14.46                 | 15.0                     | 0.513                   | 0.58                    | -0.02           |
| 656000         | 3840.0 | 135@67    | Right Tilt    | /                | 14.46                 | 15.0                     | 0.333                   | 0.38                    | -0.03           |

**Table 13.44: SAR Values (NR n77 PC2 Part 270 - Head) - Ant.4**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000         | 3840.0 | 135@67    | Left Cheek    | /                | 23.58                 | 24.5                     | 0.189                   | 0.23                    | 0.03            |
| 656000         | 3840.0 | 135@67    | Left Tilt     | /                | 23.58                 | 24.5                     | 0.093                   | 0.11                    | -0.05           |
| 656000         | 3840.0 | 135@67    | Right Cheek   | /                | 23.58                 | 24.5                     | 0.139                   | 0.17                    | 0.07            |
| 656000         | 3840.0 | 135@67    | Right Tilt    | /                | 23.58                 | 24.5                     | 0.136                   | 0.17                    | 0.12            |

**Table 13.45: SAR Values (NR n77 PC2 Part 270 - Head) - Ant.3**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000         | 3840.0 | 135@67    | Left Cheek    | /                | 24.99                 | 26.0                     | 0.262                   | 0.33                    | 0.03            |
| 656000         | 3840.0 | 135@67    | Left Tilt     | /                | 24.99                 | 26.0                     | 0.086                   | 0.11                    | -0.01           |
| 656000         | 3840.0 | 135@67    | Right Cheek   | /                | 24.99                 | 26.0                     | 0.128                   | 0.16                    | 0.11            |
| 656000         | 3840.0 | 135@67    | Right Tilt    | /                | 24.99                 | 26.0                     | 0.049                   | 0.06                    | 0.05            |

**Table 13.46: SAR Values (NR n77 PC2 Part 270 - Head) - Ant.2**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level A2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000         | 3840.0 | 135@67    | Left Cheek    | /                | 18.89                 | 20.0                     | 0.187                   | 0.23                    | 0.03            |
| 656000         | 3840.0 | 135@67    | Left Tilt     | /                | 18.89                 | 20.0                     | 0.063                   | 0.08                    | 0.07            |
| 656000         | 3840.0 | 135@67    | Right Cheek   | /                | 18.89                 | 20.0                     | 0.497                   | 0.64                    | 0.06            |
| 656000         | 3840.0 | 135@67    | Right Tilt    | /                | 18.89                 | 20.0                     | 0.131                   | 0.17                    | 0.08            |

**Table 13.47: SAR Values (NR n77 PC2 Part 270 - Body) - Ant.6**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000                                      | 3840.0 | 135@67    | Front         | /                | 18.63                 | 19.0                     | 0.229                   | 0.25                    | -0.17           |
| 656000                                      | 3840.0 | 135@67    | Rear          | /                | 18.63                 | 19.0                     | 0.372                   | 0.41                    | 0.19            |
| 656000                                      | 3840.0 | 135@67    | Left          | /                | 18.63                 | 19.0                     | 0.334                   | 0.36                    | 0.04            |
| 656000                                      | 3840.0 | 135@67    | Right         | /                | 18.63                 | 19.0                     | 0.042                   | 0.05                    | 0.17            |
| 656000                                      | 3840.0 | 135@67    | Top           | /                | 18.63                 | 19.0                     | 0.128                   | 0.14                    | 0.08            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000                                      | 3840.0 | 135@67    | Front         | /                | 20.11                 | 20.5                     | 0.236                   | 0.26                    | 0.19            |
| 656000                                      | 3840.0 | 135@67    | Rear          | /                | 20.11                 | 20.5                     | 0.284                   | 0.31                    | 0.08            |

**Table 13.48: SAR Values (NR n77 PC2 Part 270 - Body) - Ant.4**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000                                      | 3840.0 | 135@67    | Front         | /                | 23.58                 | 24.5                     | 0.338                   | 0.42                    | 0.02            |
| 656000                                      | 3840.0 | 135@67    | Rear          | /                | 23.58                 | 24.5                     | 0.418                   | 0.52                    | 0.03            |
| 656000                                      | 3840.0 | 135@67    | Left          | /                | 23.58                 | 24.5                     | 0.424                   | 0.52                    | -0.03           |
| 656000                                      | 3840.0 | 135@67    | Right         | /                | 23.58                 | 24.5                     | 0.093                   | 0.11                    | -0.11           |
| 656000                                      | 3840.0 | 135@67    | Top           | /                | 23.58                 | 24.5                     | 0.071                   | 0.09                    | 0.04            |
| 656000                                      | 3840.0 | 135@67    | Bottom        | /                | 23.58                 | 24.5                     | 0.376                   | 0.46                    | 0.13            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000                                      | 3840.0 | 135@67    | Front         | /                | 23.58                 | 24.5                     | 0.167                   | 0.21                    | 0.02            |
| 656000                                      | 3840.0 | 135@67    | Rear          | /                | 23.58                 | 24.5                     | 0.230                   | 0.28                    | -0.01           |

**Table 13.49: SAR Values (NR n77 PC2 Part 270 - Body) - Ant.3**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000                                      | 3840.0 | 135@67    | Front         | /                | 20.54                 | 21.5                     | 0.083                   | 0.10                    | 0.17            |
| 656000                                      | 3840.0 | 135@67    | Rear          | 28               | 20.54                 | 21.5                     | 0.557                   | 0.69                    | -0.02           |
| 656000                                      | 3840.0 | 135@67    | Left          | /                | 20.54                 | 21.5                     | 0.021                   | 0.03                    | -0.01           |
| 656000                                      | 3840.0 | 135@67    | Right         | /                | 20.54                 | 21.5                     | 0.305                   | 0.38                    | -0.12           |
| 656000                                      | 3840.0 | 135@67    | Top           | /                | 20.54                 | 21.5                     | 0.081                   | 0.10                    | 0.08            |
| 656000                                      | 3840.0 | 135@67    | Bottom        | /                | 20.54                 | 21.5                     | 0.011                   | 0.01                    | 0.04            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000                                      | 3840.0 | 135@67    | Front         | /                | 22.46                 | 23.5                     | 0.058                   | 0.07                    | 0.09            |
| 656000                                      | 3840.0 | 135@67    | Rear          | /                | 22.46                 | 23.5                     | 0.425                   | 0.54                    | 0.06            |

**Table 13.50: SAR Values (NR n77 PC2 Part 270 - Body) - Ant.2**

| Frequency                                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|---------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level B2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000                                      | 3840.0 | 135@67    | Front         | /                | 17.07                 | 18.0                     | 0.083                   | 0.10                    | 0.16            |
| 656000                                      | 3840.0 | 135@67    | Rear          | /                | 17.07                 | 18.0                     | 0.403                   | 0.50                    | 0.01            |
| 656000                                      | 3840.0 | 135@67    | Left          | /                | 17.07                 | 18.0                     | 0.352                   | 0.44                    | 0.05            |
| 656000                                      | 3840.0 | 135@67    | Right         | /                | 17.07                 | 18.0                     | 0.010                   | 0.01                    | 0.15            |
| 656000                                      | 3840.0 | 135@67    | Top           | /                | 17.07                 | 18.0                     | 0.041                   | 0.05                    | 0.04            |
| 656000                                      | 3840.0 | 135@67    | Bottom        | /                | 17.07                 | 18.0                     | 0.007                   | 0.01                    | 0.15            |
| Body-Worn Test Data (15mm) - Power Level C2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 656000                                      | 3840.0 | 135@67    | Front         | /                | 19.99                 | 21.0                     | 0.083                   | 0.11                    | 0.05            |
| 656000                                      | 3840.0 | 135@67    | Rear          | /                | 19.99                 | 21.0                     | 0.421                   | 0.53                    | 0.19            |

### 13.4. Test Results for Bluetooth

**Table 13.51: SAR Values (Bluetooth - Head)**

| Frequency |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|-----------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.       | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| 0         | 2402.0 | GFSK      | Left Cheek    | <b>29</b>        | 10.94                 | 12.0                     | <b>0.021</b>            | <b>0.03</b>             | 0.04            |
| 0         | 2402.0 | GFSK      | Left Tilt     | /                | 10.94                 | 12.0                     | 0.021                   | <b>0.03</b>             | 0.03            |
| 0         | 2402.0 | GFSK      | Right Cheek   | /                | 10.94                 | 12.0                     | 0.009                   | <b>0.01</b>             | 0.04            |
| 0         | 2402.0 | GFSK      | Right Tilt    | /                | 10.94                 | 12.0                     | 0.001                   | <b>&lt;0.01</b>         | 0.12            |

**Table 13.52: SAR Values (Bluetooth - Body)**

| Frequency        |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.              | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Test Data (10mm) |        |           |               |                  |                       |                          |                         |                         |                 |
| 0                | 2402.0 | GFSK      | Front         | /                | 10.94                 | 12.0                     | <0.01                   | <0.01                   | 0.00            |
| 0                | 2402.0 | GFSK      | Rear          | 30               | 10.94                 | 12.0                     | 0.028                   | 0.04                    | 0.07            |
| 0                | 2402.0 | GFSK      | Left          | /                | 10.94                 | 12.0                     | <0.01                   | <0.01                   | 0.00            |
| 0                | 2402.0 | GFSK      | Right         | /                | 10.94                 | 12.0                     | <0.01                   | <0.01                   | 0.00            |
| 0                | 2402.0 | GFSK      | Top           | /                | 10.94                 | 12.0                     | 0.023                   | 0.03                    | 0.03            |



### 13.5. WLAN Evaluation for 2.4GHz

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

**Table 13.53: SAR Values (WLAN 2.4GHz - Head)**

| Frequency      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|----------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Power Level D1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 1              | 2412.0 | 802.11b   | Left Cheek    | 31               | 17.81                 | 18.0                     | 0.947                   | 0.99                    | 0.12            |
| 1              | 2412.0 | 802.11b   | Left Tilt     | /                | 17.81                 | 18.0                     | 0.858                   | 0.90                    | 0.10            |
| 1              | 2412.0 | 802.11b   | Right Cheek   | /                | 17.81                 | 18.0                     | 0.392                   | 0.41                    | -0.15           |
| 1              | 2412.0 | 802.11b   | Right Tilt    | /                | 17.81                 | 18.0                     | 0.415                   | 0.43                    | 0.06            |
| 6              | 2437.0 | 802.11b   | Left Cheek    | /                | 17.40                 | 18.0                     | 0.682                   | 0.78                    | 0.11            |
| Power Level D2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 1              | 2412.0 | 802.11b   | Left Cheek    | /                | 11.82                 | 12.0                     | 0.267                   | 0.28                    | -0.11           |
| 1              | 2412.0 | 802.11b   | Left Tilt     | /                | 11.82                 | 12.0                     | 0.242                   | 0.25                    | 0.18            |
| 1              | 2412.0 | 802.11b   | Right Cheek   | /                | 11.82                 | 12.0                     | 0.128                   | 0.13                    | 0.03            |
| 1              | 2412.0 | 802.11b   | Right Tilt    | /                | 11.82                 | 12.0                     | 0.117                   | 0.12                    | 0.19            |

Note: For all positions/configurations tested using the initial test position and subsequent test positions, 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 until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

**Table 13.54: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)**

| Frequency |        | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
|-----------|--------|---------------|--------------------|---------------------|-------------------------|--------------------------------|
| Ch.       | MHz    |               |                    |                     |                         |                                |
| 1         | 2412.0 | Left Cheek    | 100%               | 100%                | 0.99                    | 0.99                           |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

**Table 13.55: SAR Values (WLAN 2.4GHz - Body)**

| Frequency                                      |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|------------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                            | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| Hotspot Test Data (10mm) - Power Level E1/E2   |        |           |               |                  |                       |                          |                         |                         |                 |
| 1                                              | 2412.0 | 802.11b   | Front         | /                | 19.75                 | 20.0                     | 0.298                   | 0.32                    | -0.12           |
| 1                                              | 2412.0 | 802.11b   | Rear          | /                | 19.75                 | 20.0                     | 0.286                   | 0.30                    | -0.14           |
| 1                                              | 2412.0 | 802.11b   | Left          | /                | 19.75                 | 20.0                     | 0.053                   | 0.06                    | -0.14           |
| 1                                              | 2412.0 | 802.11b   | Right         | /                | 19.75                 | 20.0                     | 0.123                   | 0.13                    | 0.16            |
| 1                                              | 2412.0 | 802.11b   | Top           | 32               | 19.75                 | 20.0                     | 0.356                   | 0.38                    | 0.01            |
| Body-Worn Test Data (10mm) - Power Level F1/F2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 1                                              | 2412.0 | 802.11b   | Front         | /                | 19.75                 | 20.0                     | 0.298                   | 0.32                    | -0.12           |
| 1                                              | 2412.0 | 802.11b   | Rear          | /                | 19.75                 | 20.0                     | 0.286                   | 0.30                    | -0.14           |

Note: For all positions/configurations tested using the initial test position and subsequent test positions, 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 until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

**Table 13.56: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)**

| Frequency |        | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
|-----------|--------|---------------|--------------------|---------------------|-------------------------|--------------------------------|
| Ch.       | MHz    |               |                    |                     |                         |                                |
| 1         | 2412.0 | Top           | 100%               | 100%                | 0.38                    | <b>0.38</b>                    |

SAR is not required for OFDM because the 802.11b adjusted SAR  $\leq 1.2$  W/kg.

### 13.6. WLAN Evaluation for 5GHz

**Table 13.57: SAR Values (WLAN 5GHz - Head)**

| Frequency                   |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|-----------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                         | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| <U-NII-2A> - Power Level D1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 60                          | 5300.0 | 802.11a   | Left Cheek    | /                | 18.14                 | 18.5                     | 0.673                   | <b>0.73</b>             | 0.07            |
| 60                          | 5300.0 | 802.11a   | Left Tilt     | /                | 18.14                 | 18.5                     | 0.575                   | <b>0.62</b>             | 0.02            |
| 60                          | 5300.0 | 802.11a   | Right Cheek   | /                | 18.14                 | 18.5                     | 0.333                   | <b>0.36</b>             | 0.12            |
| 60                          | 5300.0 | 802.11a   | Right Tilt    | /                | 18.14                 | 18.5                     | 0.332                   | <b>0.36</b>             | 0.06            |
| <U-NII-2C> - Power Level D1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 144                         | 5720.0 | 802.11a   | Left Cheek    | /                | 18.39                 | 18.5                     | 0.711                   | <b>0.73</b>             | 0.02            |
| 144                         | 5720.0 | 802.11a   | Left Tilt     | /                | 18.39                 | 18.5                     | 0.570                   | <b>0.58</b>             | 0.05            |
| 144                         | 5720.0 | 802.11a   | Right Cheek   | /                | 18.39                 | 18.5                     | 0.221                   | <b>0.23</b>             | -0.09           |
| 144                         | 5720.0 | 802.11a   | Right Tilt    | /                | 18.39                 | 18.5                     | 0.175                   | <b>0.18</b>             | 0.02            |
| <U-NII-3> - Power Level D1  |        |           |               |                  |                       |                          |                         |                         |                 |
| 165                         | 5825.0 | 802.11a   | Left Cheek    | <b>33</b>        | 18.11                 | 18.5                     | <b>0.914</b>            | <b>1.00</b>             | 0.03            |
| 165                         | 5825.0 | 802.11a   | Left Tilt     | /                | 18.11                 | 18.5                     | 0.855                   | <b>0.94</b>             | 0.02            |
| 165                         | 5825.0 | 802.11a   | Right Cheek   | /                | 18.11                 | 18.5                     | 0.268                   | <b>0.29</b>             | -0.11           |
| 165                         | 5825.0 | 802.11a   | Right Tilt    | /                | 18.11                 | 18.5                     | 0.269                   | <b>0.29</b>             | -0.05           |
| 157                         | 5785.0 | 802.11a   | Left Cheek    | /                | 18.07                 | 18.5                     | 0.666                   | <b>0.74</b>             | 0.05            |
| <U-NII-2A> - Power Level D2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 60                          | 5300.0 | 802.11a   | Left Cheek    | /                | 15.07                 | 15.5                     | 0.399                   | <b>0.44</b>             | 0.09            |
| 60                          | 5300.0 | 802.11a   | Left Tilt     | /                | 15.07                 | 15.5                     | 0.341                   | <b>0.38</b>             | 0.02            |
| 60                          | 5300.0 | 802.11a   | Right Cheek   | /                | 15.07                 | 15.5                     | 0.147                   | <b>0.16</b>             | 0.04            |
| 60                          | 5300.0 | 802.11a   | Right Tilt    | /                | 15.07                 | 15.5                     | 0.146                   | <b>0.16</b>             | -0.12           |
| <U-NII-2C> - Power Level D2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 144                         | 5720.0 | 802.11a   | Left Cheek    | /                | 15.32                 | 15.5                     | 0.422                   | <b>0.44</b>             | 0.09            |
| 144                         | 5720.0 | 802.11a   | Left Tilt     | /                | 15.32                 | 15.5                     | 0.338                   | <b>0.35</b>             | 0.12            |
| 144                         | 5720.0 | 802.11a   | Right Cheek   | /                | 15.32                 | 15.5                     | 0.131                   | <b>0.14</b>             | -0.15           |
| 144                         | 5720.0 | 802.11a   | Right Tilt    | /                | 15.32                 | 15.5                     | 0.104                   | <b>0.11</b>             | 0.13            |
| <U-NII-3> - Power Level D2  |        |           |               |                  |                       |                          |                         |                         |                 |
| 165                         | 5825.0 | 802.11a   | Left Cheek    | /                | 15.04                 | 15.5                     | 0.498                   | <b>0.55</b>             | -0.14           |
| 165                         | 5825.0 | 802.11a   | Left Tilt     | /                | 15.04                 | 15.5                     | 0.466                   | <b>0.52</b>             | 0.06            |
| 165                         | 5825.0 | 802.11a   | Right Cheek   | /                | 15.04                 | 15.5                     | 0.146                   | <b>0.16</b>             | 0.13            |
| 165                         | 5825.0 | 802.11a   | Right Tilt    | /                | 15.04                 | 15.5                     | 0.147                   | <b>0.16</b>             | 0.05            |

**Note:**

1. U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is  $\leq 1.2\text{W/kg}$ , SAR is not required for U-NII-1 band.

2. For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is  $> 0.8\text{ W/kg}$ , SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is  $\leq 1.2\text{ W/kg}$



or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

**Table 13.58: SAR Values (WLAN - Head) - 802.11a (Scaled Reported SAR)**

| Frequency |        | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
|-----------|--------|---------------|--------------------|---------------------|-------------------------|--------------------------------|
| Ch.       | MHz    |               |                    |                     |                         |                                |
| 165       | 5825.0 | Left Cheek    | 100%               | 100%                | 1.00                    | 1.00                           |

**Table 13.59: SAR Values (WLAN 5GHz - Body)**

| Frequency                                                 |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
|-----------------------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Ch.                                                       | MHz    |           |               |                  |                       |                          |                         |                         |                 |
| <U-NII-1> - Hotspot Test Data (10mm) - Power Level E1     |        |           |               |                  |                       |                          |                         |                         |                 |
| 40                                                        | 5200.0 | 802.11a   | Front         | /                | 18.17                 | 18.5                     | 0.157                   | 0.17                    | 0.03            |
| 40                                                        | 5200.0 | 802.11a   | Rear          | /                | 18.17                 | 18.5                     | 1.030                   | 1.11                    | 0.05            |
| 40                                                        | 5200.0 | 802.11a   | Left          | /                | 18.17                 | 18.5                     | 0.036                   | 0.04                    | -0.14           |
| 40                                                        | 5200.0 | 802.11a   | Right         | /                | 18.17                 | 18.5                     | 0.564                   | 0.61                    | 0.18            |
| 40                                                        | 5200.0 | 802.11a   | Top           | /                | 18.17                 | 18.5                     | 0.609                   | 0.66                    | 0.04            |
| 44                                                        | 5220.0 | 802.11a   | Rear          | 34               | 18.14                 | 18.5                     | 1.070                   | 1.16                    | 0.03            |
| <U-NII-3> - Hotspot Test Data (10mm) - Power Level E1     |        |           |               |                  |                       |                          |                         |                         |                 |
| 165                                                       | 5825.0 | 802.11a   | Front         | /                | 18.11                 | 18.5                     | 0.176                   | 0.19                    | 0.12            |
| 165                                                       | 5825.0 | 802.11a   | Rear          | /                | 18.11                 | 18.5                     | 0.852                   | 0.93                    | 0.09            |
| 165                                                       | 5825.0 | 802.11a   | Left          | /                | 18.11                 | 18.5                     | 0.098                   | 0.11                    | 0.08            |
| 165                                                       | 5825.0 | 802.11a   | Right         | /                | 18.11                 | 18.5                     | 0.751                   | 0.82                    | 0.04            |
| 165                                                       | 5825.0 | 802.11a   | Top           | /                | 18.11                 | 18.5                     | 0.436                   | 0.48                    | 0.04            |
| 157                                                       | 5785.0 | 802.11a   | Rear          | /                | 18.07                 | 18.5                     | 0.739                   | 0.82                    | -0.16           |
| 157                                                       | 5785.0 | 802.11a   | Right         | /                | 18.07                 | 18.5                     | 0.706                   | 0.78                    | 0.03            |
| <U-NII-1> - Hotspot Test Data (10mm) - Power Level E2     |        |           |               |                  |                       |                          |                         |                         |                 |
| 40                                                        | 5200.0 | 802.11a   | Front         | /                | 12.43                 | 13.0                     | 0.059                   | 0.07                    | -0.04           |
| 40                                                        | 5200.0 | 802.11a   | Rear          | /                | 12.43                 | 13.0                     | 0.385                   | 0.44                    | 0.14            |
| 40                                                        | 5200.0 | 802.11a   | Left          | /                | 12.43                 | 13.0                     | 0.013                   | 0.01                    | -0.14           |
| 40                                                        | 5200.0 | 802.11a   | Right         | /                | 12.43                 | 13.0                     | 0.196                   | 0.22                    | -0.06           |
| 40                                                        | 5200.0 | 802.11a   | Top           | /                | 12.43                 | 13.0                     | 0.193                   | 0.22                    | 0.02            |
| <U-NII-3> - Hotspot Test Data (10mm) - Power Level E2     |        |           |               |                  |                       |                          |                         |                         |                 |
| 165                                                       | 5825.0 | 802.11a   | Front         | /                | 13.99                 | 14.5                     | 0.081                   | 0.09                    | 0.11            |
| 165                                                       | 5825.0 | 802.11a   | Rear          | /                | 13.99                 | 14.5                     | 0.390                   | 0.44                    | 0.13            |
| 165                                                       | 5825.0 | 802.11a   | Left          | /                | 13.99                 | 14.5                     | 0.045                   | 0.05                    | 0.10            |
| 165                                                       | 5825.0 | 802.11a   | Right         | /                | 13.99                 | 14.5                     | 0.344                   | 0.39                    | 0.10            |
| 165                                                       | 5825.0 | 802.11a   | Top           | /                | 13.99                 | 14.5                     | 0.199                   | 0.22                    | -0.02           |
| < U-NII-2A> - Body-Worn Test Data (15mm) - Power Level F1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 60                                                        | 5300.0 | 802.11a   | Front         | /                | 18.14                 | 18.5                     | 0.107                   | 0.12                    | 0.09            |
| 60                                                        | 5300.0 | 802.11a   | Rear          | /                | 18.14                 | 18.5                     | 0.507                   | 0.55                    | 0.06            |
| < U-NII-2C> - Body-Worn Test Data (15mm) - Power Level F1 |        |           |               |                  |                       |                          |                         |                         |                 |
| 144                                                       | 5720.0 | 802.11a   | Front         | /                | 18.39                 | 18.5                     | 0.120                   | 0.12                    | 0.03            |
| 144                                                       | 5720.0 | 802.11a   | Rear          | /                | 18.39                 | 18.5                     | 0.560                   | 0.57                    | 0.09            |
| < U-NII-3> - Body-Worn Test Data (15mm) - Power Level F1  |        |           |               |                  |                       |                          |                         |                         |                 |
| 165                                                       | 5825.0 | 802.11a   | Front         | /                | 18.11                 | 18.5                     | 0.105                   | 0.11                    | 0.00            |
| 165                                                       | 5825.0 | 802.11a   | Rear          | /                | 18.11                 | 18.5                     | 0.534                   | 0.58                    | 0.09            |
| < U-NII-2A> - Body-Worn Test Data (15mm) - Power Level F2 |        |           |               |                  |                       |                          |                         |                         |                 |
| 60                                                        | 5300.0 | 802.11a   | Front         | /                | 16.02                 | 16.5                     | 0.083                   | 0.09                    | -0.02           |
| 60                                                        | 5300.0 | 802.11a   | Rear          | /                | 16.02                 | 16.5                     | 0.387                   | 0.43                    | 0.05            |

| < U-NII-2C> - Body-Worn Test Data (15mm) - Power Level F2 |        |         |       |   |       |      |       |             |       |
|-----------------------------------------------------------|--------|---------|-------|---|-------|------|-------|-------------|-------|
| 144                                                       | 5720.0 | 802.11a | Front | / | 16.27 | 16.5 | 0.069 | <b>0.07</b> | -0.03 |
| 144                                                       | 5720.0 | 802.11a | Rear  | / | 16.27 | 16.5 | 0.324 | <b>0.34</b> | -0.03 |
| < U-NII-3> - Body-Worn Test Data (15mm) - Power Level F2  |        |         |       |   |       |      |       |             |       |
| 165                                                       | 5825.0 | 802.11a | Front | / | 15.99 | 16.5 | 0.080 | <b>0.09</b> | 0.08  |
| 165                                                       | 5825.0 | 802.11a | Rear  | / | 15.99 | 16.5 | 0.409 | <b>0.46</b> | -0.06 |

**Note:**

1. U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is  $\leq 1.2\text{W/kg}$ , SAR is not required for U-NII-1 band.
2. For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is  $> 0.8\text{ W/kg}$ , SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is  $\leq 1.2\text{ W/kg}$  or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

**Table 13.60: SAR Values (WLAN - Body) - 802.11a (Scaled Reported SAR)**

| Frequency |        | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
|-----------|--------|---------------|--------------------|---------------------|-------------------------|--------------------------------|
| Ch.       | MHz    |               |                    |                     |                         |                                |
| 44        | 5220.0 | Rear          | 100%               | 100%                | 1.16                    | <b>1.16</b>                    |

### 13.7. Product specific 10g SAR

**Table 13.61: SAR Values (WCDMA Band 2 - Extremity)**

| Frequency                        |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
|----------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Ch.                              | MHz    |           |               |                  |                       |                          |                          |                          |                 |
| Test Data (0mm) - Power Level C1 |        |           |               |                  |                       |                          |                          |                          |                 |
| 9400                             | 1880.0 | RMC       | Bottom        | /                | 21.00                 | 22.0                     | 2.210                    | 2.78                     | 0.07            |
| 9538                             | 1907.6 | RMC       | Bottom        | /                | 21.00                 | 22.0                     | 2.180                    | 2.74                     | 0.02            |
| 9262                             | 1852.4 | RMC       | Bottom        | 35               | 21.00                 | 22.0                     | 2.240                    | 2.82                     | 0.07            |

**Table 13.62: SAR Values (WCDMA Band 4 - Extremity)**

| Frequency                        |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
|----------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Ch.                              | MHz    |           |               |                  |                       |                          |                          |                          |                 |
| Test Data (0mm) - Power Level C1 |        |           |               |                  |                       |                          |                          |                          |                 |
| 1413                             | 1732.6 | RMC       | Rear          | /                | 21.50                 | 22.5                     | 2.360                    | 2.97                     | -0.03           |
| 1513                             | 1752.6 | RMC       | Rear          | /                | 21.50                 | 22.5                     | 2.390                    | 3.01                     | 0.06            |
| 1312                             | 1712.4 | RMC       | Rear          | /                | 21.60                 | 22.5                     | 2.340                    | 2.88                     | 0.05            |
| 1413                             | 1732.6 | RMC       | Bottom        | /                | 21.50                 | 22.5                     | 2.520                    | 3.17                     | 0.06            |
| 1513                             | 1752.6 | RMC       | Bottom        | 36               | 21.50                 | 22.5                     | 2.540                    | 3.20                     | 0.04            |
| 1312                             | 1712.4 | RMC       | Bottom        | /                | 21.60                 | 22.5                     | 2.470                    | 3.04                     | 0.02            |

**Table 13.63: SAR Values (LTE Band 2 - Extremity)**

| Frequency                        |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
|----------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Ch.                              | MHz    |           |               |                  |                       |                          |                          |                          |                 |
| Test Data (0mm) - Power Level C1 |        |           |               |                  |                       |                          |                          |                          |                 |
| 18900                            | 1880.0 | 1RB50     | Bottom        | /                | 20.19                 | 22.0                     | 1.770                    | 2.69                     | 0.02            |
| 19100                            | 1900.0 | 1RB50     | Bottom        | /                | 20.18                 | 22.0                     | 1.770                    | 2.69                     | 0.09            |
| 18700                            | 1860.0 | 1RB50     | Bottom        | 37               | 20.15                 | 22.0                     | 1.840                    | 2.82                     | 0.05            |
| 18700                            | 1860.0 | 100RB     | Bottom        | /                | 19.14                 | 21.0                     | 1.380                    | 2.12                     | 0.08            |

**Table 13.64: SAR Values (LTE Band 4 - Extremity)**

| Frequency                        |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
|----------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Ch.                              | MHz    |           |               |                  |                       |                          |                          |                          |                 |
| Test Data (0mm) - Power Level C1 |        |           |               |                  |                       |                          |                          |                          |                 |
| 20300                            | 1745.0 | 1RB50     | Bottom        | 38               | 20.63                 | 22.0                     | 2.120                    | 2.91                     | 0.03            |
| 20175                            | 1732.5 | 1RB50     | Bottom        | /                | 20.60                 | 21.0                     | 2.080                    | 2.28                     | 0.12            |
| 20050                            | 1720.0 | 1RB50     | Bottom        | /                | 20.61                 | 21.0                     | 2.030                    | 2.22                     | 0.04            |
| 20300                            | 1745.0 | 100RB     | Bottom        | /                | 19.68                 | 21.0                     | 1.760                    | 2.39                     | 0.05            |

**Table 13.65: SAR Values (LTE Band 66 - Extremity)**

| Frequency                        |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
|----------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Ch.                              | MHz    |           |               |                  |                       |                          |                          |                          |                 |
| Test Data (0mm) - Power Level C1 |        |           |               |                  |                       |                          |                          |                          |                 |
| 132572                           | 1770.0 | 1RB50     | Bottom        | /                | 20.68                 | 22.0                     | 2.210                    | 2.99                     | 0.02            |
| 132322                           | 1745.0 | 1RB50     | Bottom        | 39               | 20.66                 | 22.0                     | 2.290                    | 3.12                     | -0.02           |
| 132072                           | 1720.0 | 1RB50     | Bottom        | /                | 20.66                 | 22.0                     | 2.190                    | 2.98                     | 0.01            |
| 132572                           | 1770.0 | 100RB     | Bottom        | /                | 19.80                 | 21.0                     | 1.190                    | 1.57                     | 0.01            |

**Table 13.66: SAR Values (WLAN 5GHz - Extremity)**

| Frequency                                     |        | Test Mode | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
|-----------------------------------------------|--------|-----------|---------------|------------------|-----------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Ch.                                           | MHz    |           |               |                  |                       |                          |                          |                          |                 |
| <U-NII-2A> - Test Data (0mm) - Power Level F1 |        |           |               |                  |                       |                          |                          |                          |                 |
| 60                                            | 5300.0 | 802.11a   | Front         | /                | 18.14                 | 18.5                     | 0.384                    | 0.42                     | -0.03           |
| 60                                            | 5300.0 | 802.11a   | Rear          | 40               | 18.14                 | 18.5                     | 2.430                    | 2.64                     | 0.09            |
| 60                                            | 5300.0 | 802.11a   | Left          | /                | 18.14                 | 18.5                     | 0.017                    | 0.02                     | 0.06            |
| 60                                            | 5300.0 | 802.11a   | Right         | /                | 18.14                 | 18.5                     | 1.174                    | 1.28                     | 0.08            |
| 60                                            | 5300.0 | 802.11a   | Top           | /                | 18.14                 | 18.5                     | 1.760                    | 1.91                     | 0.14            |
| 64                                            | 5320.0 | 802.11a   | Rear          | /                | 18.07                 | 18.5                     | 1.980                    | 2.19                     | 0.09            |
| <U-NII-2C> - Test Data (0mm) - Power Level F1 |        |           |               |                  |                       |                          |                          |                          |                 |
| 144                                           | 5720.0 | 802.11a   | Front         | /                | 18.39                 | 18.5                     | 0.352                    | 0.36                     | 0.04            |
| 144                                           | 5720.0 | 802.11a   | Rear          | /                | 18.39                 | 18.5                     | 1.380                    | 1.42                     | 0.01            |
| 144                                           | 5720.0 | 802.11a   | Left          | /                | 18.39                 | 18.5                     | 0.014                    | 0.01                     | -0.16           |
| 144                                           | 5720.0 | 802.11a   | Right         | /                | 18.39                 | 18.5                     | 0.862                    | 0.88                     | 0.06            |
| 144                                           | 5720.0 | 802.11a   | Top           | /                | 18.39                 | 18.5                     | 1.110                    | 1.14                     | 0.03            |
| <U-NII-2A> - Test Data (0mm) - Power Level F2 |        |           |               |                  |                       |                          |                          |                          |                 |
| 60                                            | 5300.0 | 802.11a   | Front         | /                | 16.02                 | 16.5                     | 0.220                    | 0.25                     | 0.01            |
| 60                                            | 5300.0 | 802.11a   | Rear          | /                | 16.02                 | 16.5                     | 1.390                    | 1.55                     | -0.10           |
| 60                                            | 5300.0 | 802.11a   | Left          | /                | 16.02                 | 16.5                     | 0.010                    | 0.01                     | -0.02           |
| 60                                            | 5300.0 | 802.11a   | Right         | /                | 16.02                 | 16.5                     | 0.672                    | 0.75                     | -0.12           |
| 60                                            | 5300.0 | 802.11a   | Top           | /                | 16.02                 | 16.5                     | 1.010                    | 1.13                     | -0.12           |
| <U-NII-2C> - Test Data (0mm) - Power Level F2 |        |           |               |                  |                       |                          |                          |                          |                 |
| 144                                           | 5720.0 | 802.11a   | Front         | /                | 16.27                 | 16.5                     | 0.288                    | 0.30                     | 0.02            |
| 144                                           | 5720.0 | 802.11a   | Rear          | /                | 16.27                 | 16.5                     | 1.130                    | 1.19                     | 0.11            |
| 144                                           | 5720.0 | 802.11a   | Left          | /                | 16.27                 | 16.5                     | 0.011                    | 0.01                     | -0.15           |
| 144                                           | 5720.0 | 802.11a   | Right         | /                | 16.27                 | 16.5                     | 0.706                    | 0.74                     | -0.01           |
| 144                                           | 5720.0 | 802.11a   | Top           | /                | 16.27                 | 16.5                     | 0.909                    | 0.96                     | -0.09           |



## 14. SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.80$  W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .

**Table 14.1: SAR Measurement Variability for Body - WCDMA Band 2**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 9262      | 1852.4 | Bottom        | 0.895      | 0.883                    | 1.01  | /                        |

**Table 14.2: SAR Measurement Variability for Body - WCDMA Band 4**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 1513      | 1752.6 | Bottom        | 1.010      | 0.995                    | 1.02  | /                        |

**Table 14.3: SAR Measurement Variability for Body - LTE Band 4**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 20300     | 1745.0 | Bottom        | 0.885      | 0.870                    | 1.02  | /                        |

**Table 14.4: SAR Measurement Variability for Head - WLAN 2.4GHz**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 1         | 2412.0 | Left Cheek    | 0.947      | 0.933                    | 1.02  | /                        |

**Table 14.5: SAR Measurement Variability for Head - WLAN 5GHz**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 165       | 5825.0 | Left Cheek    | 0.914      | 0.905                    | 1.01  | /                        |

**Table 14.6: SAR Measurement Variability for Body - WLAN 5GHz**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 44        | 5220.0 | Rear          | 1.070      | 1.050                    | 1.02  | /                        |

**Table 14.7: SAR Measurement Variability for Extremity - WCDMA Band 2**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 9262      | 1852.4 | Bottom        | 2.240      | 2.190                    | 1.02  | /                        |

**Table 14.8: SAR Measurement Variability for Extremity - WCDMA Band 4**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 1513      | 1752.6 | Bottom        | 2.540      | 2.460                    | 1.03  | /                        |

**Table 14.9: SAR Measurement Variability for Extremity - LTE Band 4**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 20300     | 1745.0 | Bottom        | 2.120      | 2.070                    | 1.02  | /                        |

**Table 14.10: SAR Measurement Variability for Extremity - LTE Band 66**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 132322    | 1745.0 | Bottom        | 2.290      | 2.210                    | 1.04  | /                        |

**Table 14.11: SAR Measurement Variability for Extremity - WLAN 5GHz**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| Ch.       | MHz    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 60        | 5300.0 | Rear          | 2.430      | 2.380                    | 1.02  | /                        |

## 15. Measurement Uncertainty

### 15.1. Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

| No.                                                | Error Description                               | Type                                       | Uncertainty value | Probably Distribution | Div.       | (Ci) 1g      | (Ci) 10g     | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|----------------------------------------------------|-------------------------------------------------|--------------------------------------------|-------------------|-----------------------|------------|--------------|--------------|----------------|-----------------|-------------------|
| <b>Measurement system</b>                          |                                                 |                                            |                   |                       |            |              |              |                |                 |                   |
| 1                                                  | Probe calibration                               | B                                          | 12                | N                     | 2          | 1            | 1            | 6.0            | 6.0             | ∞                 |
| 2                                                  | Axial isotropy                                  | B                                          | 4.7               | R                     | $\sqrt{3}$ | $\sqrt{0.5}$ | $\sqrt{0.5}$ | 4.3            | 4.3             | ∞                 |
| 3                                                  | Hemispherical isotropy                          | B                                          | 9.6               | R                     | $\sqrt{3}$ | 1            | 1            | 4.8            | 4.8             | ∞                 |
| 4                                                  | Boundary effect                                 | B                                          | 1.1               | R                     | $\sqrt{3}$ | 1            | 1            | 0.6            | 0.6             | ∞                 |
| 5                                                  | Linearity                                       | B                                          | 4.7               | R                     | $\sqrt{3}$ | 1            | 1            | 2.7            | 2.7             | ∞                 |
| 6                                                  | Detection limit                                 | B                                          | 1.0               | R                     | $\sqrt{3}$ | 1            | 1            | 0.6            | 0.6             | ∞                 |
| 7                                                  | Modulation response                             | B                                          | 4.0               | R                     | $\sqrt{3}$ | 1            | 1            | 2.3            | 2.3             | ∞                 |
| 8                                                  | Readout electronics                             | B                                          | 1.0               | N                     | 1          | 1            | 1            | 1.0            | 1.0             | ∞                 |
| 9                                                  | Response time                                   | B                                          | 0.8               | R                     | $\sqrt{3}$ | 1            | 1            | 0.5            | 0.5             | ∞                 |
| 10                                                 | Integration time                                | B                                          | 1.7               | R                     | $\sqrt{3}$ | 1            | 1            | 1.0            | 1.0             | ∞                 |
| 11                                                 | RF ambient conditions-noise                     | B                                          | 3.0               | R                     | $\sqrt{3}$ | 1            | 1            | 1.7            | 1.7             | ∞                 |
| 12                                                 | RF ambient conditions-reflection                | B                                          | 3.0               | R                     | $\sqrt{3}$ | 1            | 1            | 1.7            | 1.7             | ∞                 |
| 13                                                 | Probe positioned mech. restrictions             | B                                          | 0.35              | R                     | $\sqrt{3}$ | 1            | 1            | 0.2            | 0.2             | ∞                 |
| 14                                                 | Probe positioning with respect to phantom shell | B                                          | 2.9               | R                     | $\sqrt{3}$ | 1            | 1            | 1.7            | 1.7             | ∞                 |
| 15                                                 | Post-processing                                 | B                                          | 1.0               | R                     | $\sqrt{3}$ | 1            | 1            | 0.6            | 0.6             | ∞                 |
| <b>Test sample related</b>                         |                                                 |                                            |                   |                       |            |              |              |                |                 |                   |
| 16                                                 | Test sample positioning                         | A                                          | 3.3               | N                     | 1          | 1            | 1            | 3.3            | 3.3             | 5                 |
| 17                                                 | Device holder uncertainty                       | A                                          | 3.4               | N                     | 1          | 1            | 1            | 3.4            | 3.4             | 5                 |
| 18                                                 | Drift of output power                           | B                                          | 5.0               | R                     | $\sqrt{3}$ | 1            | 1            | 2.9            | 2.9             | ∞                 |
| <b>Phantom and set-up</b>                          |                                                 |                                            |                   |                       |            |              |              |                |                 |                   |
| 19                                                 | Phantom uncertainty                             | B                                          | 1.0               | R                     | $\sqrt{3}$ | 1            | 1            | 0.6            | 0.6             | ∞                 |
| 20                                                 | Liquid conductivity (target)                    | B                                          | 5.0               | R                     | $\sqrt{3}$ | 0.64         | 0.43         | 1.8            | 1.2             | ∞                 |
| 21                                                 | Liquid conductivity (meas.)                     | A                                          | 1.3               | N                     | 1          | 0.64         | 0.43         | 0.83           | 0.56            | 9                 |
| 22                                                 | Liquid permittivity (target)                    | B                                          | 5.0               | R                     | $\sqrt{3}$ | 0.6          | 0.49         | 1.7            | 1.4             | ∞                 |
| 23                                                 | Liquid permittivity (meas.)                     | A                                          | 1.6               | N                     | 1          | 0.6          | 0.49         | 0.96           | 0.78            | 9                 |
| Combined standard uncertainty                      |                                                 | $u_c = \sqrt{\sum_{i=1}^{23} c_i^2 u_i^2}$ |                   |                       |            |              |              | 11.3           | 11.2            | 95.5              |
| Expanded uncertainty (Confidence interval of 95 %) |                                                 | $u_e = 2u_c$                               |                   |                       |            |              |              | 22.6           | 22.4            |                   |

### 15.2. Measurement Uncertainty for Normal SAR Tests (3GHz~6GHz)

| No.                                                | Error Description                               | Type                                       | Uncertainty value | Probably Distribution | Div.       | (Ci) 1g      | (Ci) 10g     | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|----------------------------------------------------|-------------------------------------------------|--------------------------------------------|-------------------|-----------------------|------------|--------------|--------------|----------------|-----------------|-------------------|
| <b>Measurement system</b>                          |                                                 |                                            |                   |                       |            |              |              |                |                 |                   |
| 1                                                  | Probe calibration                               | B                                          | 13.1              | N                     | 2          | 1            | 1            | 6.65           | 6.65            | $\infty$          |
| 2                                                  | Axial isotropy                                  | B                                          | 4.7               | R                     | $\sqrt{3}$ | $\sqrt{0.5}$ | $\sqrt{0.5}$ | 4.3            | 4.3             | $\infty$          |
| 3                                                  | Hemispherical isotropy                          | B                                          | 9.6               | R                     | $\sqrt{3}$ | 1            | 1            | 4.8            | 4.8             | $\infty$          |
| 4                                                  | Boundary effect                                 | B                                          | 1.1               | R                     | $\sqrt{3}$ | 1            | 1            | 0.6            | 0.6             | $\infty$          |
| 5                                                  | Linearity                                       | B                                          | 4.7               | R                     | $\sqrt{3}$ | 1            | 1            | 2.7            | 2.7             | $\infty$          |
| 6                                                  | Detection limit                                 | B                                          | 1.0               | R                     | $\sqrt{3}$ | 1            | 1            | 0.6            | 0.6             | $\infty$          |
| 7                                                  | modulation response                             | B                                          | 4.0               | R                     | $\sqrt{3}$ | 1            | 1            | 2.3            | 2.3             | $\infty$          |
| 8                                                  | Readout electronics                             | B                                          | 1.0               | N                     | 1          | 1            | 1            | 1.0            | 1.0             | $\infty$          |
| 9                                                  | Response time                                   | B                                          | 0.0               | R                     | $\sqrt{3}$ | 1            | 1            | 0.0            | 0.0             | $\infty$          |
| 10                                                 | Integration time                                | B                                          | 1.7               | R                     | $\sqrt{3}$ | 1            | 1            | 1.0            | 1.0             | $\infty$          |
| 11                                                 | RF ambient conditions-noise                     | B                                          | 3.0               | R                     | $\sqrt{3}$ | 1            | 1            | 1.7            | 1.7             | $\infty$          |
| 12                                                 | RF ambient conditions-reflection                | B                                          | 3.0               | R                     | $\sqrt{3}$ | 1            | 1            | 1.7            | 1.7             | $\infty$          |
| 13                                                 | Probe positioned mech. Restrictions             | B                                          | 0.35              | R                     | $\sqrt{3}$ | 1            | 1            | 0.2            | 0.2             | $\infty$          |
| 14                                                 | Probe positioning with respect to phantom shell | B                                          | 2.9               | R                     | $\sqrt{3}$ | 1            | 1            | 1.7            | 1.7             | $\infty$          |
| 15                                                 | Post-processing                                 | B                                          | 1.0               | R                     | $\sqrt{3}$ | 1            | 1            | 0.6            | 0.6             | $\infty$          |
| <b>Test sample related</b>                         |                                                 |                                            |                   |                       |            |              |              |                |                 |                   |
| 16                                                 | Test sample positioning                         | A                                          | 3.3               | N                     | 1          | 1            | 1            | 3.3            | 3.3             | 5                 |
| 17                                                 | Device holder uncertainty                       | A                                          | 3.4               | N                     | 1          | 1            | 1            | 3.4            | 3.4             | 5                 |
| 18                                                 | Drift of output power                           | B                                          | 5.0               | R                     | $\sqrt{3}$ | 1            | 1            | 2.9            | 2.9             | $\infty$          |
| <b>Phantom and set-up</b>                          |                                                 |                                            |                   |                       |            |              |              |                |                 |                   |
| 19                                                 | Phantom uncertainty                             | B                                          | 1.0               | R                     | $\sqrt{3}$ | 1            | 1            | 0.6            | 0.6             | $\infty$          |
| 20                                                 | Liquid conductivity (target)                    | B                                          | 5.0               | R                     | $\sqrt{3}$ | 0.64         | 0.43         | 1.8            | 1.2             | $\infty$          |
| 21                                                 | Liquid conductivity (meas.)                     | A                                          | 1.3               | N                     | 1          | 0.64         | 0.43         | 0.83           | 0.56            | 43                |
| 22                                                 | Liquid permittivity (target)                    | B                                          | 5.0               | R                     | $\sqrt{3}$ | 0.6          | 0.49         | 1.7            | 1.4             | $\infty$          |
| 23                                                 | Liquid permittivity (meas.)                     | A                                          | 1.6               | N                     | 1          | 0.6          | 0.49         | 0.96           | 0.78            | 521               |
| Combined standard uncertainty                      |                                                 | $u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ |                   |                       |            |              |              | 11.6           | 11.5            | 257               |
| Expanded uncertainty (Confidence interval of 95 %) |                                                 | $u_e = 2u_c$                               |                   |                       |            |              |              | 23.2           | 23.0            |                   |

## 16. Main Test Instruments

**Table 16.1: List of Main Instruments**

| No. | Name                  | Type    | Serial Number | Calibration Date | Valid Period |
|-----|-----------------------|---------|---------------|------------------|--------------|
| 01  | Network analyzer      | E5071C  | MY46103759    | 2021-11-15       | One year     |
| 02  | Dielectric probe      | 85070E  | MY44300317    | /                | /            |
| 03  | Power meter           | E4418B  | MY50000366    | 2021-12-12       | One year     |
| 04  | Power sensor          | E9304A  | MY50000188    | 2021-12-12       | One year     |
| 05  | Power meter           | NRP     | 101260        | 2021-12-30       | One year     |
| 06  | Power sensor          | NRP-Z91 | 102211        | 2021-12-30       | One year     |
| 07  | Signal Generator      | E8257D  | MY47461211    | 2022-01-14       | One year     |
| 08  | Amplifier             | VTL5400 | 0404          | /                | /            |
| 09  | DAE                   | DAE4    | 1527          | 2022-06-21       | One year     |
| 10  | E-field Probe         | EX3DV4  | 7621          | 2022-05-06       | One year     |
| 11  | Dipole Validation Kit | D750V3  | 1163          | 2022-08-22       | Three years  |
| 12  | Dipole Validation Kit | D835V2  | 4d057         | 2021-10-18       | Three years  |
| 13  | Dipole Validation Kit | D1750V2 | 1152          | 2022-08-22       | Three years  |
| 14  | Dipole Validation Kit | D1900V2 | 5d088         | 2021-10-18       | Three years  |
| 15  | Dipole Validation Kit | D2450V2 | 873           | 2021-10-21       | Three years  |
| 16  | Dipole Validation Kit | D3500V2 | 1084          | 2019-09-20       | Three years  |
| 17  | Dipole Validation Kit | D3900V2 | 1028          | 2019-09-20       | Three years  |
| 18  | Dipole Validation Kit | D5GHzV2 | 1238          | 2022-08-17       | Three years  |
| 19  | BTS                   | MT8820C | 6201341853    | 2022-01-14       | One year     |
| 20  | BTS                   | CMW500  | 152499        | 2022-07-15       | One year     |
| 21  | Software              | DASY5   | /             | /                | /            |

## ANNEX A: Graph Results

### WCDMA Band 2 Head

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 39.002$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WCDMA (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**Right Cheek Middle/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.157 W/kg

**Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.292 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.193 W/kg

**SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.079 W/kg**

Maximum value of SAR (measured) = 0.150 W/kg

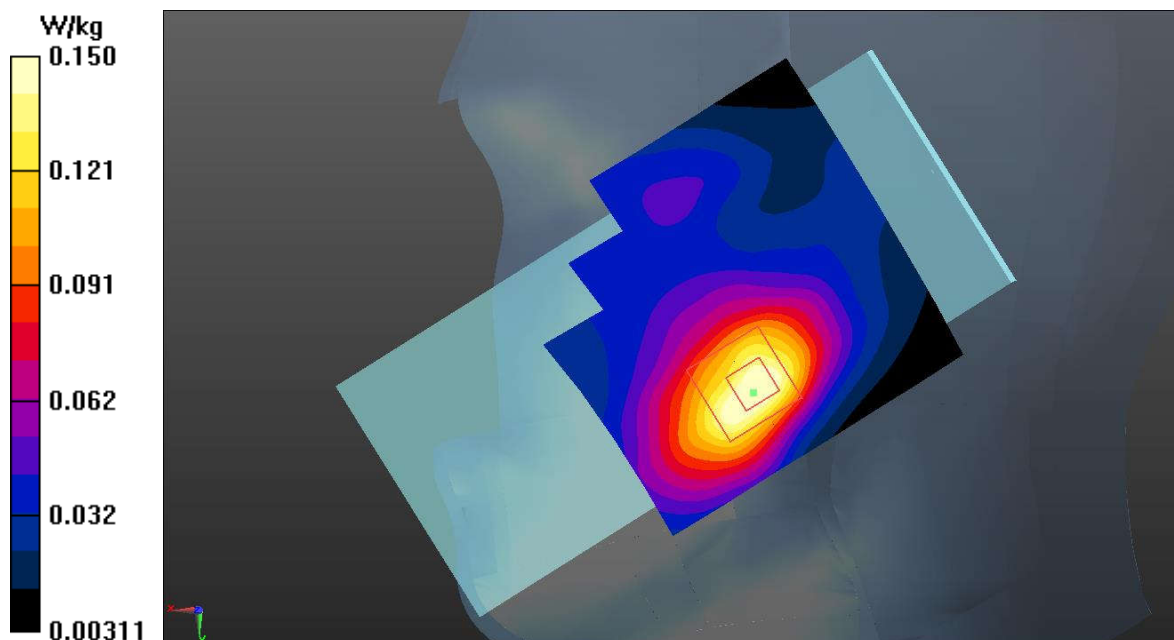


Fig.1 WCDMA Band 2 Head

### WCDMA Band 2 Body

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.386$  S/m;  $\epsilon_r = 39.11$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WCDMA (0) Frequency: 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**Bottom Side Low/Area Scan (41x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 1.25 W/kg

**Bottom Side Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 19.48 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.895 W/kg; SAR(10 g) = 0.467 W/kg**

Maximum value of SAR (measured) = 1.24 W/kg

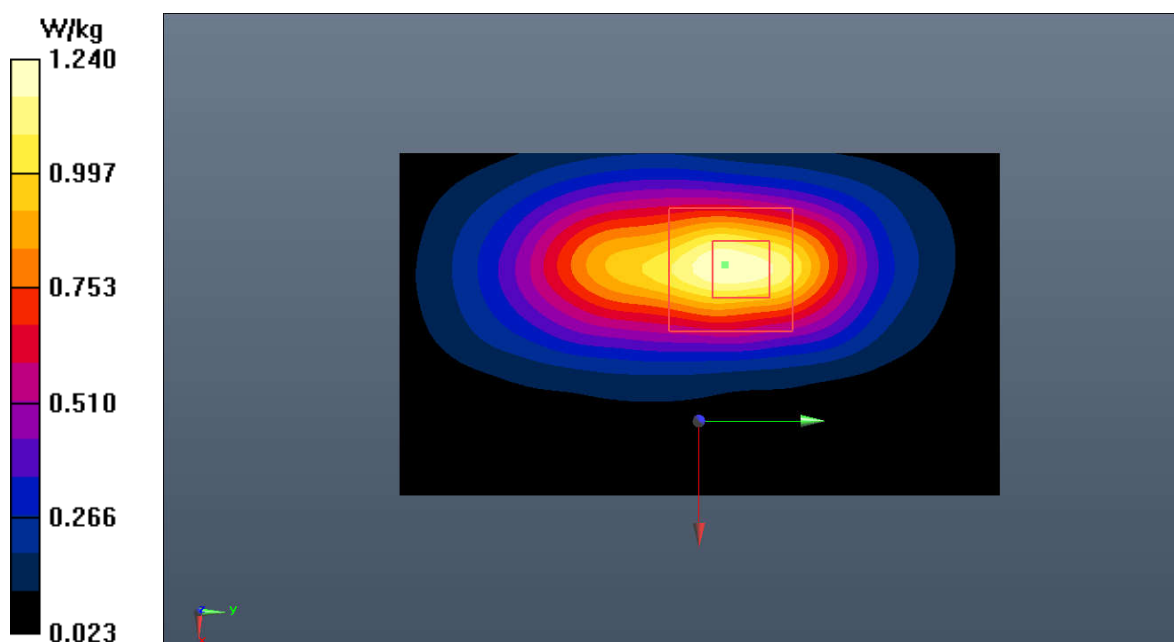


Fig.2 WCDMA Band 2 Body

### WCDMA Band 4 Head

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.371$  S/m;  $\epsilon_r = 39.304$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WCDMA (0) Frequency: 1732.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Right Cheek Middle/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.136 W/kg

**Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 0.7170 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.163 W/kg

**SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.069 W/kg**

Maximum value of SAR (measured) = 0.126 W/kg

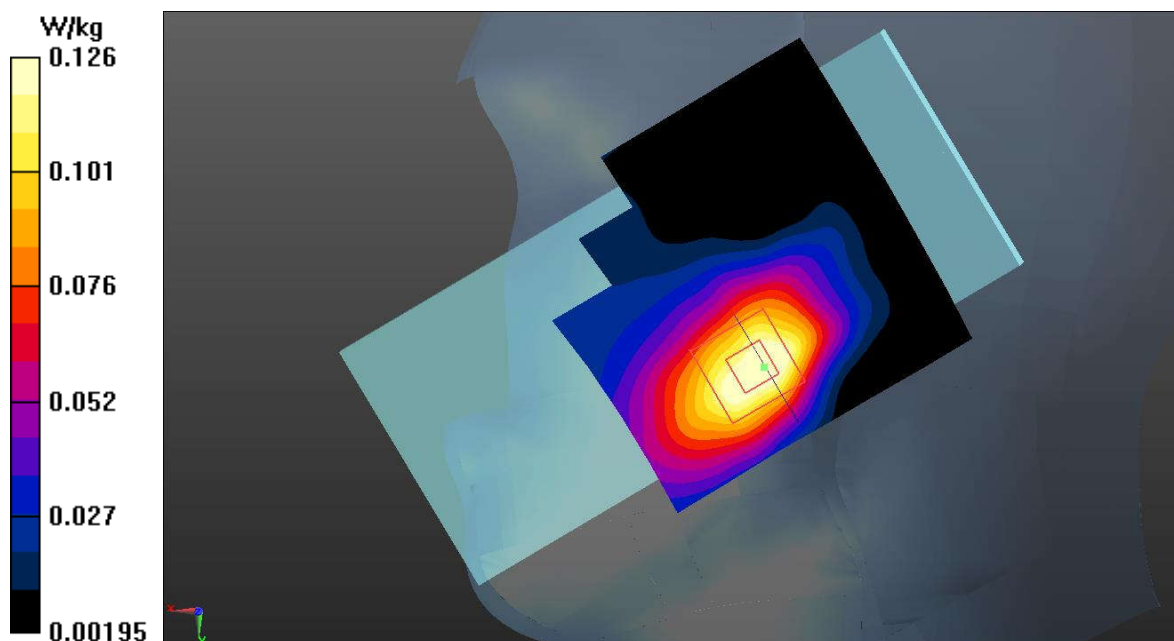


Fig.3 WCDMA Band 4 Head



### WCDMA Band 4 Body

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.389 \text{ S/m}$ ;  $\epsilon_r = 39.226$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, WCDMA (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Bottom Side High/Area Scan (41x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.43 W/kg

**Bottom Side High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 20.75 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.546 W/kg**

Maximum value of SAR (measured) = 1.39 W/kg

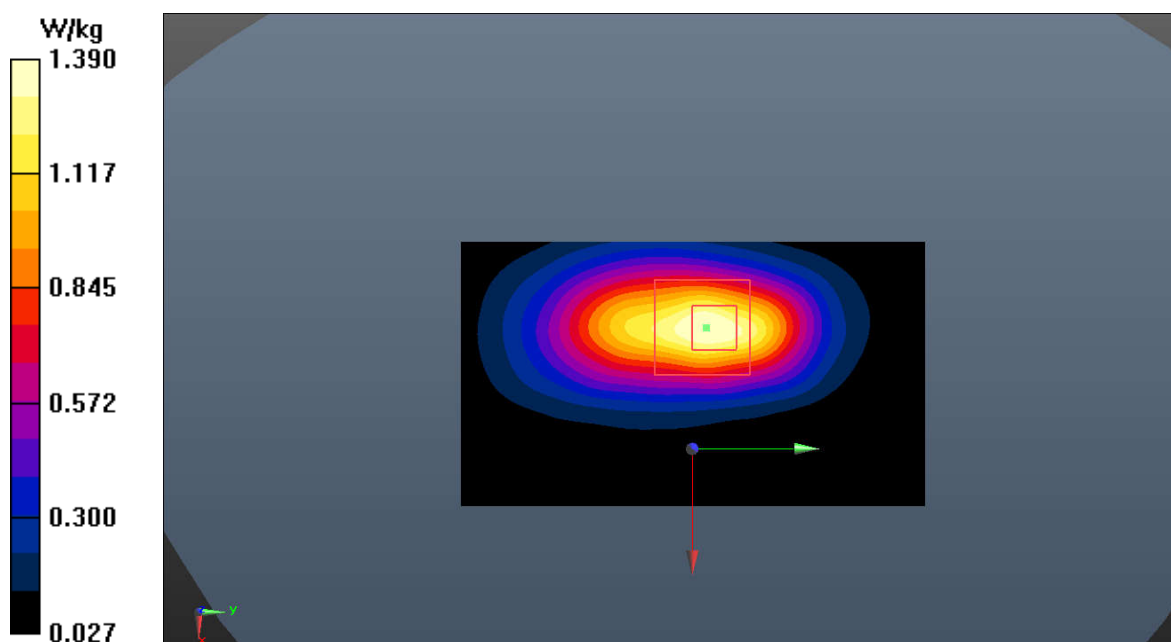


Fig.4 WCDMA Band 4 Body

# WCDMA Band 5 Head

Date: 2022-9-5

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 40.945$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WCDMA (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Left Cheek Middle/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.341 W/kg

**Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.794 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.392 W/kg

**SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.234 W/kg**

Maximum value of SAR (measured) = 0.335 W/kg

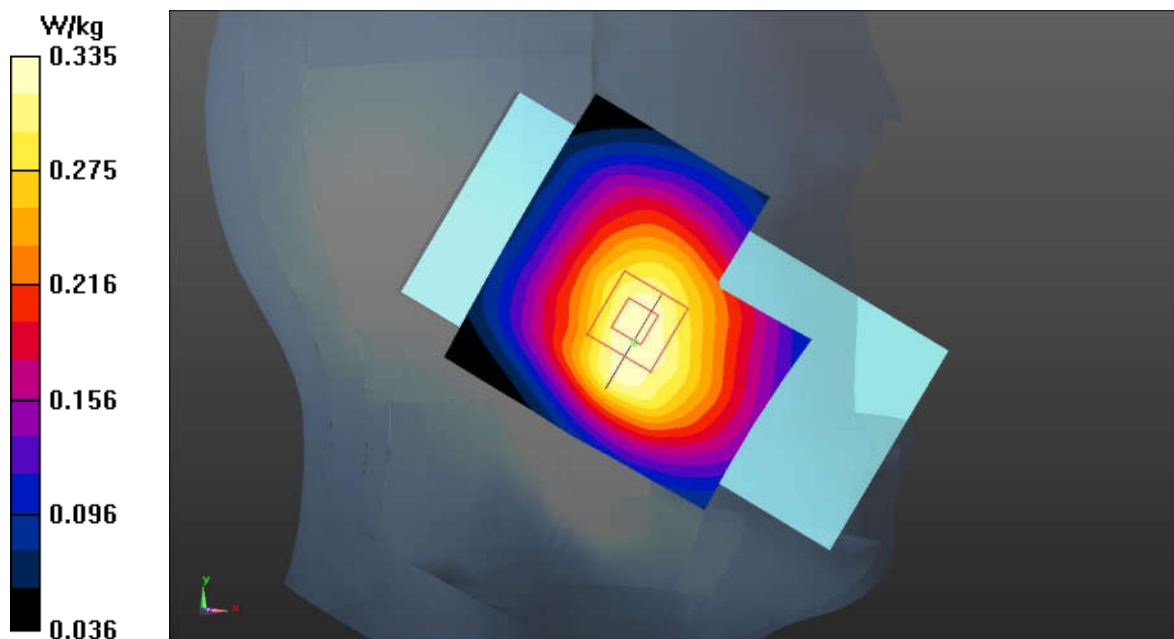


Fig.5 WCDMA Band 5 Head

### WCDMA Band 5 Body

Date: 2022-9-5

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 40.945$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WCDMA (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Rear Side Middle/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.414 W/kg

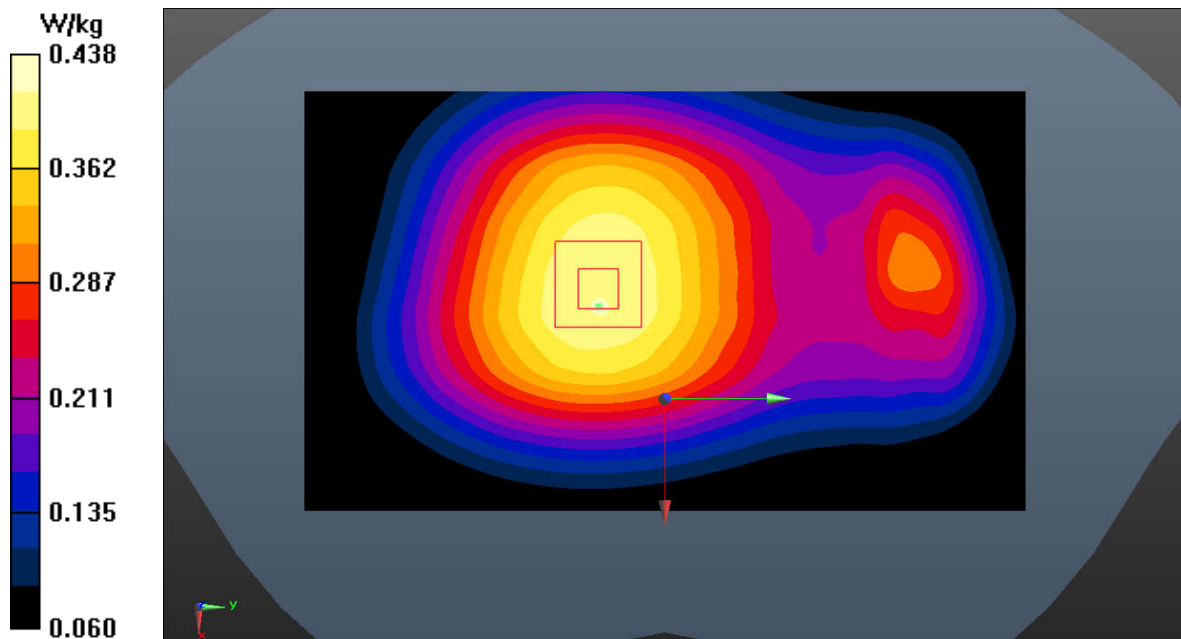
**Rear Side Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.26 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.483 W/kg

**SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.290 W/kg**

Maximum value of SAR (measured) = 0.438 W/kg



**Fig.6 WCDMA Band 5 Body**

### LTE Band 2 Head

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.41 \text{ S/m}$ ;  $\epsilon_r = 39.002$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE\_FDD (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**Right Cheek Middle 1RB50/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.171 W/kg

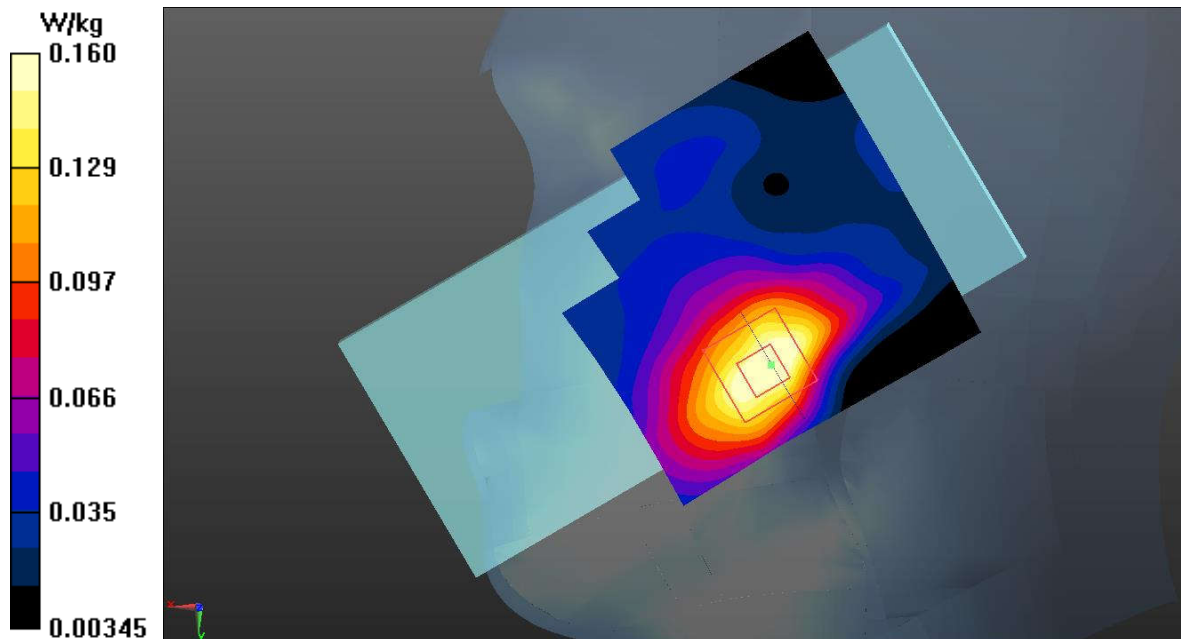
**Right Cheek Middle 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 3.106 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.207 W/kg

**SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.086 W/kg**

Maximum value of SAR (measured) = 0.160 W/kg



**Fig.7 LTE Band 2 Head**

### LTE Band 2 Body

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.393$  S/m;  $\epsilon_r = 39.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**Bottom Side Low 1RB50/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.02 W/kg

**Bottom Side Low 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.38 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.391 W/kg**

Maximum value of SAR (measured) = 0.929 W/kg

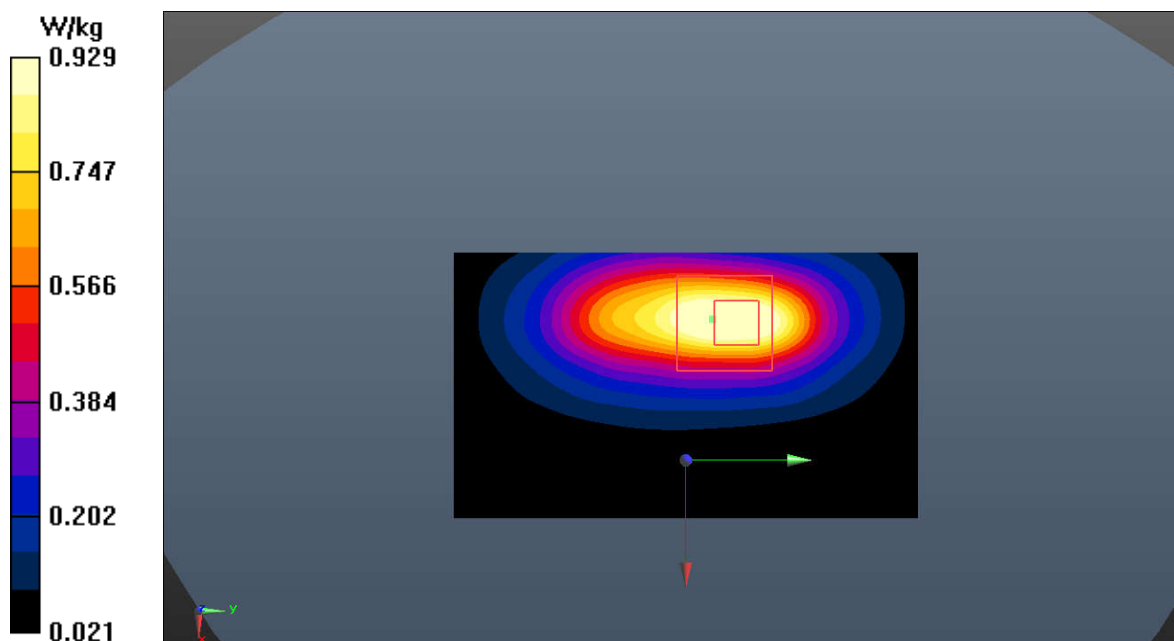


Fig.8 LTE Band 2 Body

### LTE Band 4 Head

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.382$  S/m;  $\epsilon_r = 39.258$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Right Cheek High 1RB50/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.161 W/kg

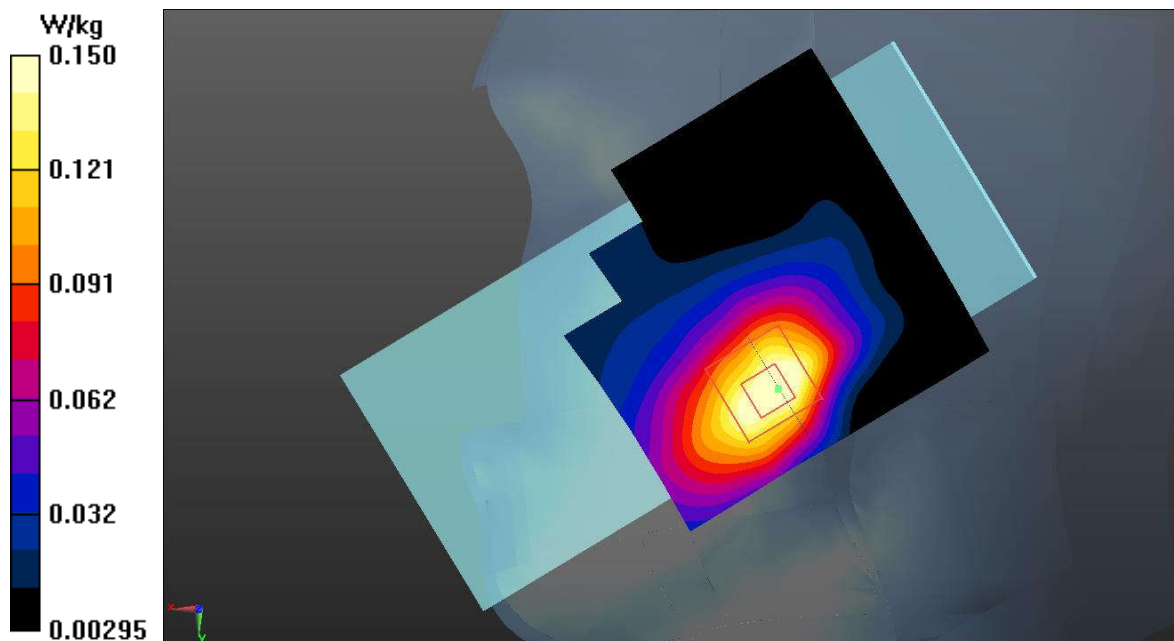
**Right Cheek High 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 0.6920 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.191 W/kg

**SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.082 W/kg**

Maximum value of SAR (measured) = 0.150 W/kg



**Fig.9 LTE Band 4 Head**

### LTE Band 4 Body

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.382$  S/m;  $\epsilon_r = 39.258$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Bottom Side High 1RB50/Area Scan (41x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 1.23 W/kg

**Bottom Side High 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 13.74 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.885 W/kg; SAR(10 g) = 0.484 W/kg**

Maximum value of SAR (measured) = 1.09 W/kg

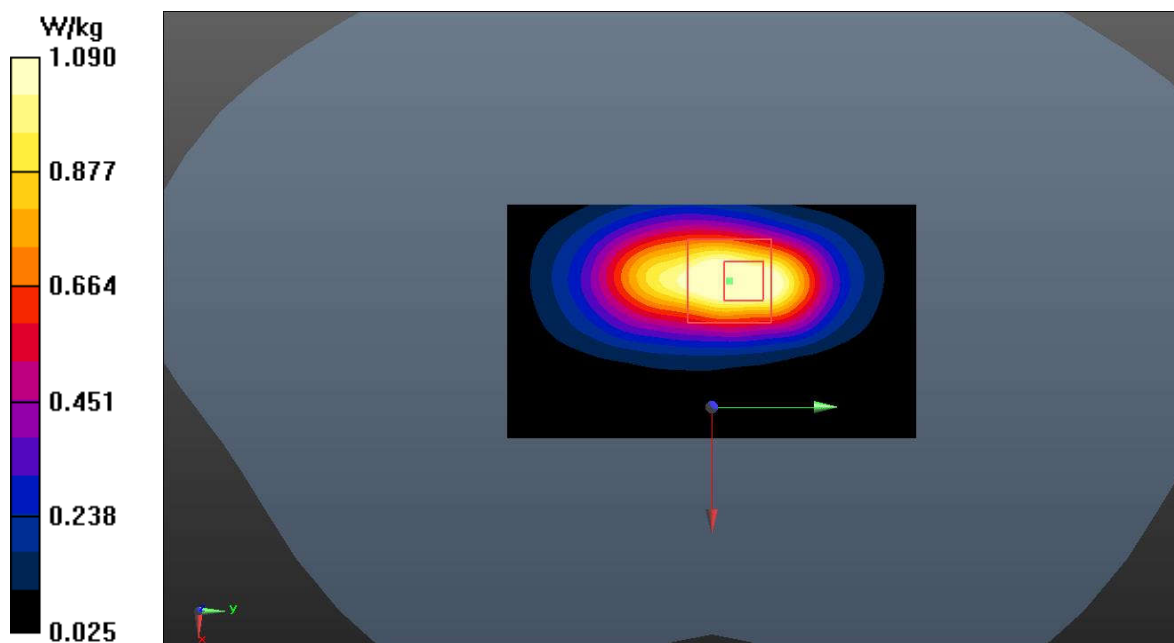


Fig.10 LTE Band 4 Body

### LTE Band 5 Head

Date: 2022-9-5

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 40.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Right Cheek Middle 1RB24/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.367 W/kg

**Right Cheek Middle 1RB24/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.195 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.410 W/kg

**SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.259 W/kg**

Maximum value of SAR (measured) = 0.360 W/kg

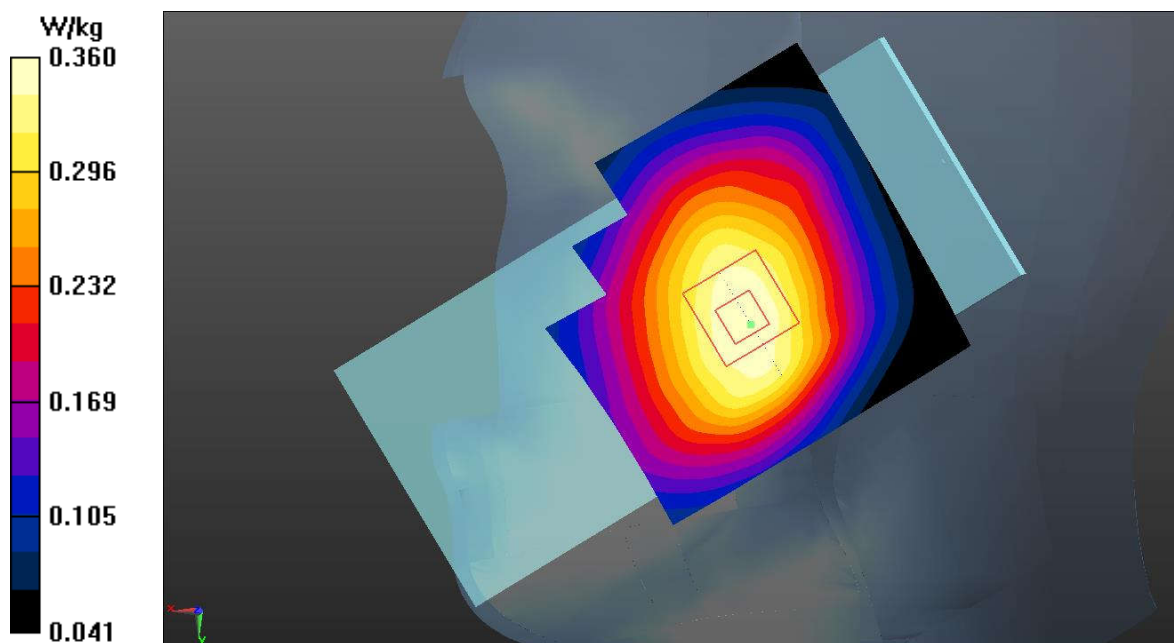


Fig.11 LTE Band 5 Head



### LTE Band 5 Body

Date: 2022-9-5

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 40.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Rear Side Middle 1RB24/Area Scan (71x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.372 W/kg

**Rear Side Middle 1RB24/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 18.27 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.432 W/kg

**SAR(1 g) = 0.338 W/kg; SAR(10 g) = 0.257 W/kg**

Maximum value of SAR (measured) = 0.391 W/kg

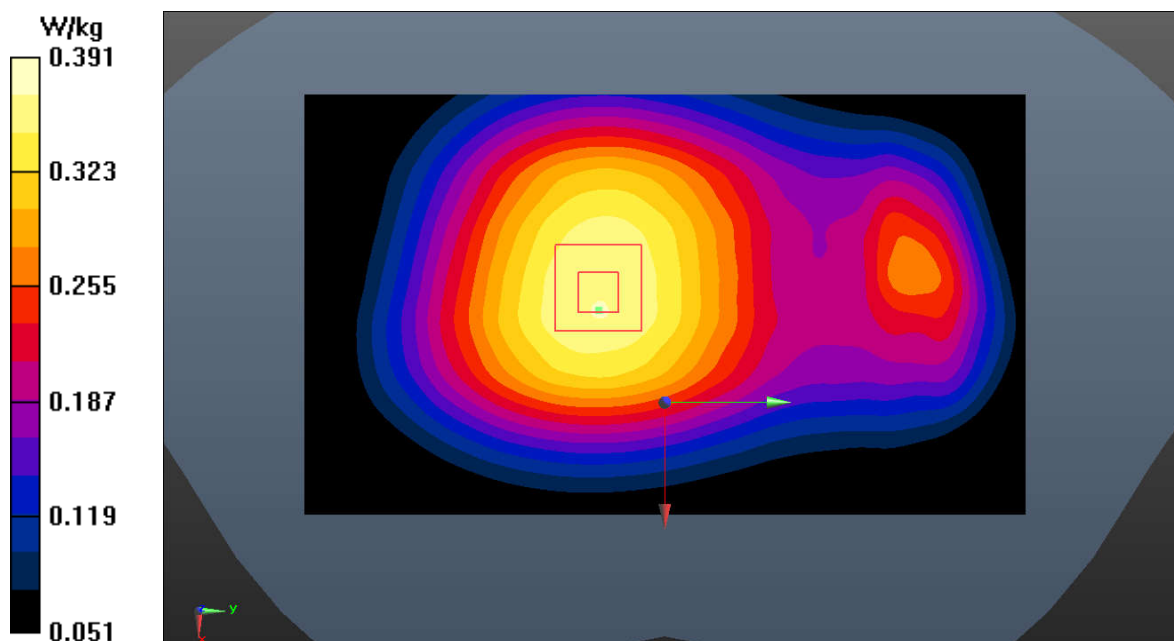


Fig.12 LTE Band 5 Body

### LTE Band 12 Head

Date: 2022-9-2

Electronics: DAE4 Sn1527

Medium: Head 750MHz

Medium parameters used:  $f = 708 \text{ MHz}$ ;  $\sigma = 0.854 \text{ S/m}$ ;  $\epsilon_r = 43.071$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE\_FDD (0) Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Right Cheek Middle 1RB24/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.124 W/kg

**Right Cheek Middle 1RB24/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 3.751 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.140 W/kg

**SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.090 W/kg**

Maximum value of SAR (measured) = 0.124 W/kg

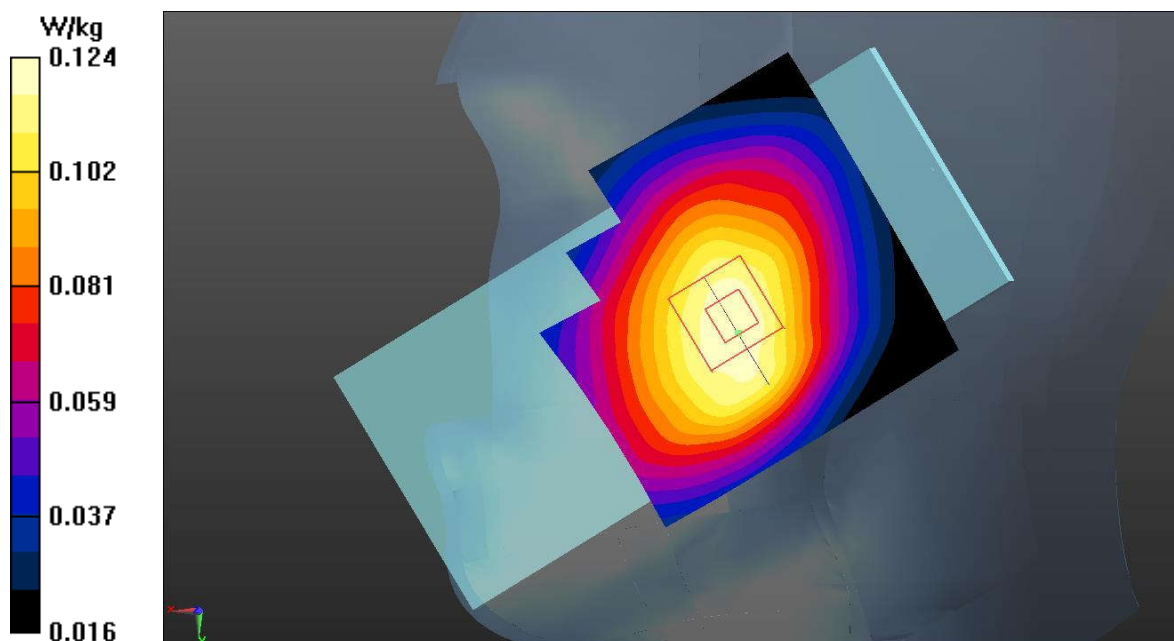


Fig.13 LTE Band 12 Head

### LTE Band 12 Body

Date: 2022-9-2

Electronics: DAE4 Sn1527

Medium: Head 750MHz

Medium parameters used:  $f = 708 \text{ MHz}$ ;  $\sigma = 0.854 \text{ S/m}$ ;  $\epsilon_r = 43.071$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE\_FDD (0) Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Rear Side Middle 1RB24/Area Scan (71x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.349 W/kg

**Rear Side Middle 1RB24/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 12.01 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.394 W/kg

**SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.166 W/kg**

Maximum value of SAR (measured) = 0.355 W/kg

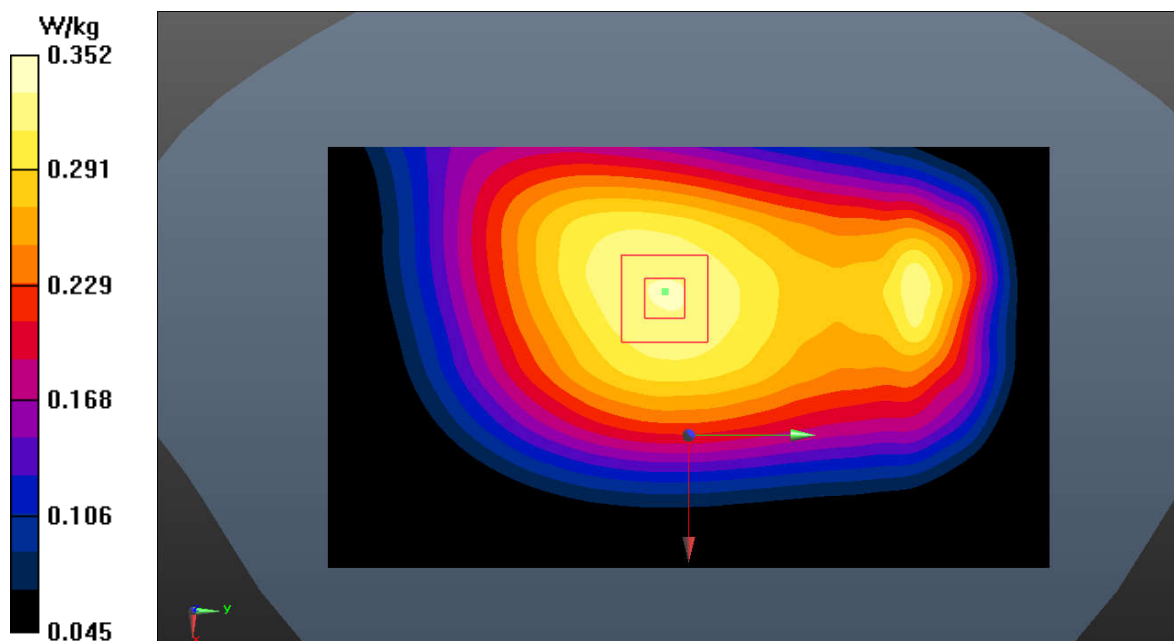


Fig.14 LTE Band 12 Body

### LTE Band 13 Head

Date: 2022-9-2

Electronics: DAE4 Sn1527

Medium: Head 750MHz

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.901 \text{ S/m}$ ;  $\epsilon_r = 42.183$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE\_FDD (0) Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Right Cheek Middle 1RB24/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.267 \text{ W/kg}$

**Right Cheek Middle 1RB24/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $4.240 \text{ V/m}$ ; Power Drift =  $0.04 \text{ dB}$

Peak SAR (extrapolated) =  $0.304 \text{ W/kg}$

**SAR(1 g) =  $0.247 \text{ W/kg}$ ; SAR(10 g) =  $0.193 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.269 \text{ W/kg}$

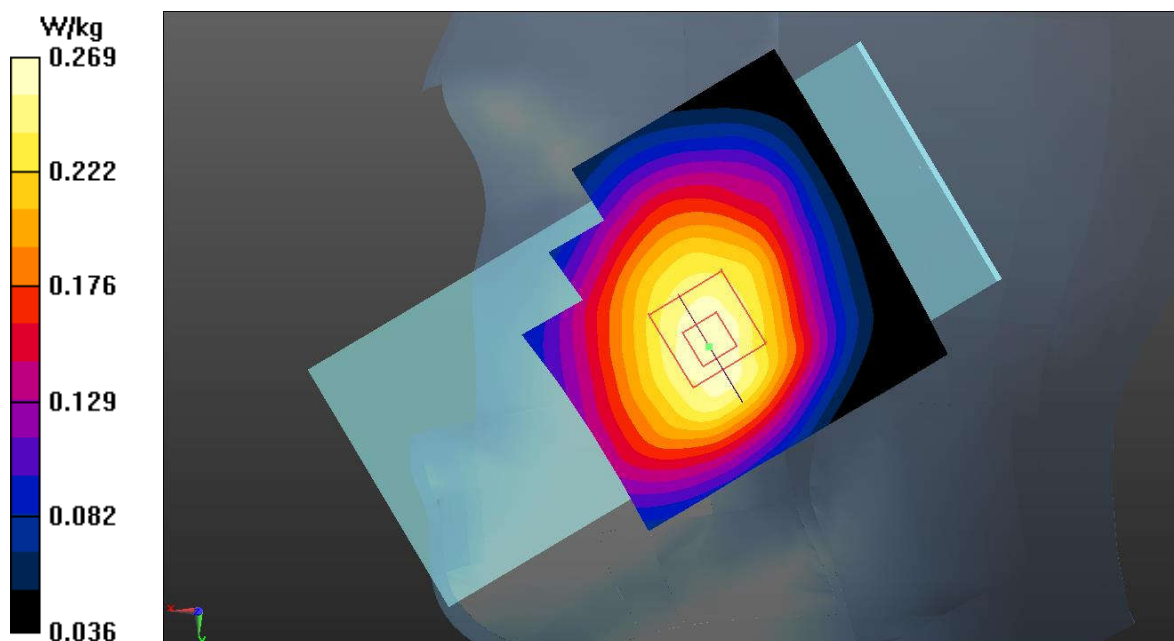


Fig.15 LTE Band 13 Head

### LTE Band 13 Body

Date: 2022-9-2

Electronics: DAE4 Sn1527

Medium: Head 750MHz

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.901 \text{ S/m}$ ;  $\epsilon_r = 42.183$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE\_FDD (0) Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Rear Side Middle 1RB24/Area Scan (71x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.327 W/kg

**Rear Side Middle 1RB24/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.93 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.421 W/kg

**SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.192 W/kg**

Maximum value of SAR (measured) = 0.345 W/kg

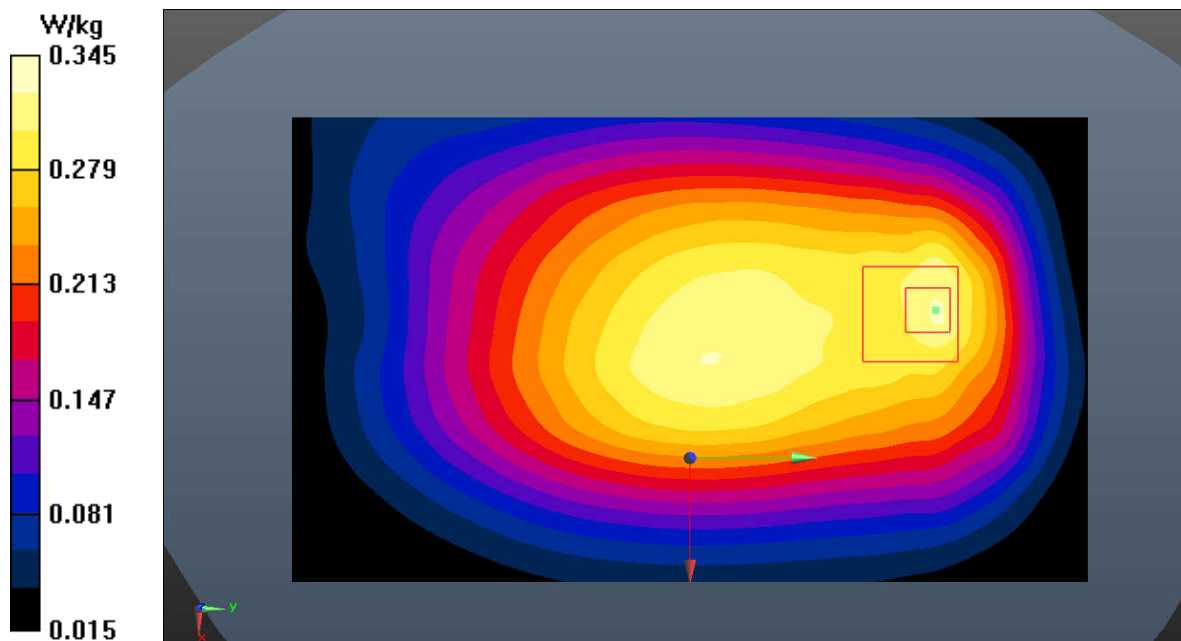


Fig.16 LTE Band 13 Body

### LTE Band 66 Head

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.404$  S/m;  $\epsilon_r = 39.16$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 1770 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Right Cheek High 1RB50/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.166 W/kg

**Right Cheek High 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 2.121 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.204 W/kg

**SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.088 W/kg**

Maximum value of SAR (measured) = 0.162 W/kg

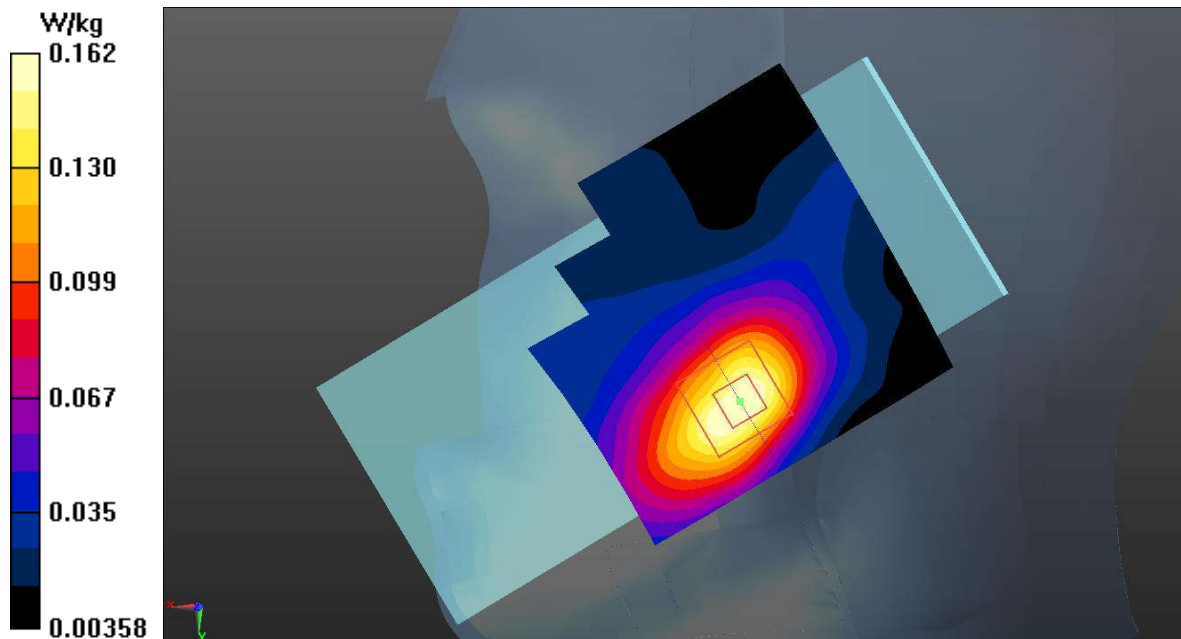


Fig.17 LTE Band 66 Head

### LTE Band 66 Body

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.404$  S/m;  $\epsilon_r = 39.16$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 1770 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Bottom Side High 1RB50/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.950 W/kg

**Bottom Side High 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.30 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.351 W/kg**

Maximum value of SAR (measured) = 0.896 W/kg

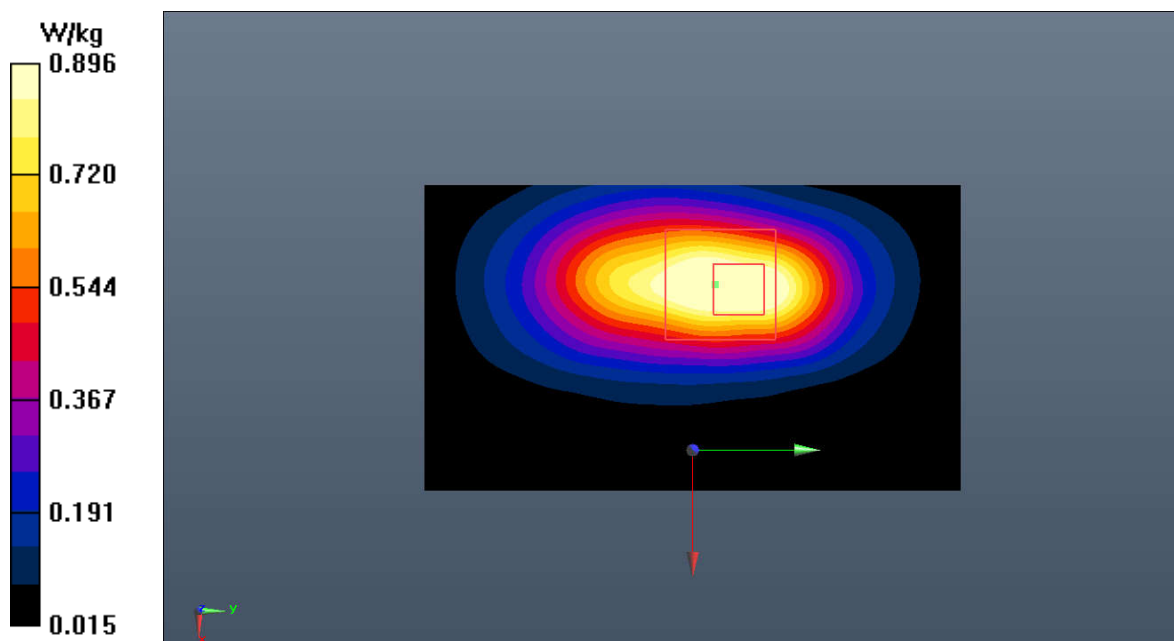


Fig.18 LTE Band 66 Body

### NR n2 Head

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 39.002$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**Right Cheek Middle 50@25/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.136 W/kg

**Right Cheek Middle 50@25/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.603 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.174 W/kg

**SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.069 W/kg**

Maximum value of SAR (measured) = 0.132 W/kg

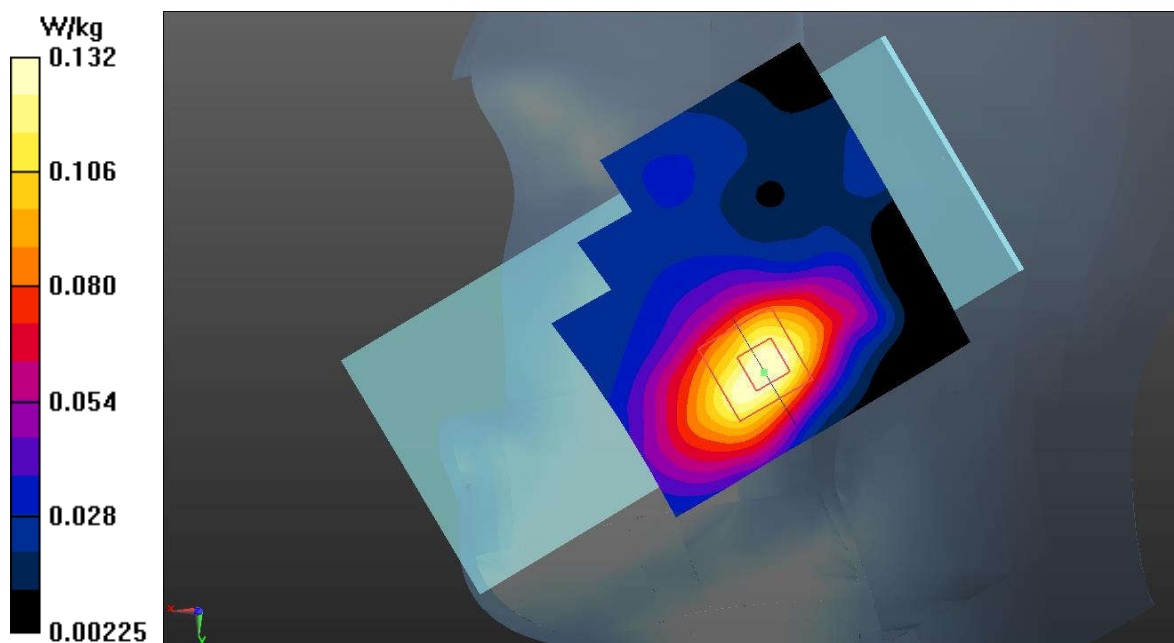


Fig.19 NR n2 Head



### NR n2 Body

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 39.002$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**Bottom Side Middle 50@25/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.781 W/kg

**Bottom Side Middle 50@25/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.85 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.292 W/kg**

Maximum value of SAR (measured) = 0.792 W/kg

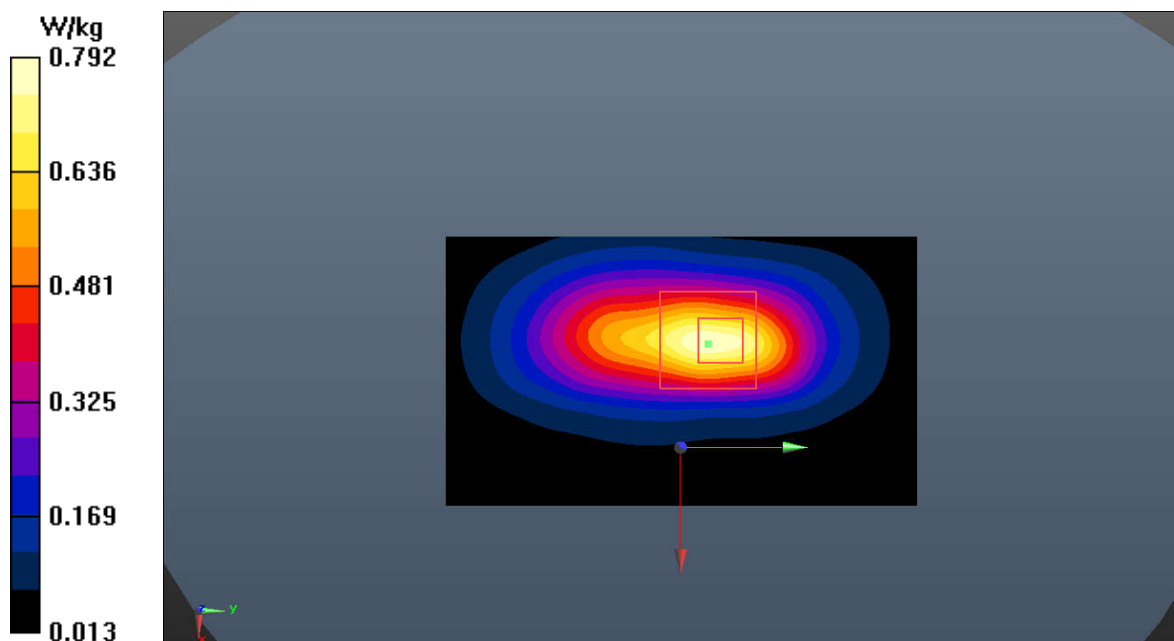


Fig.20 NR n2 Body

### NR n5 Head

Date: 2022-9-5

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 40.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Right Cheek Middle 50@25/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.420 W/kg

**Right Cheek Middle 50@25/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.128 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.460 W/kg

**SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.281 W/kg**

Maximum value of SAR (measured) = 0.422 W/kg

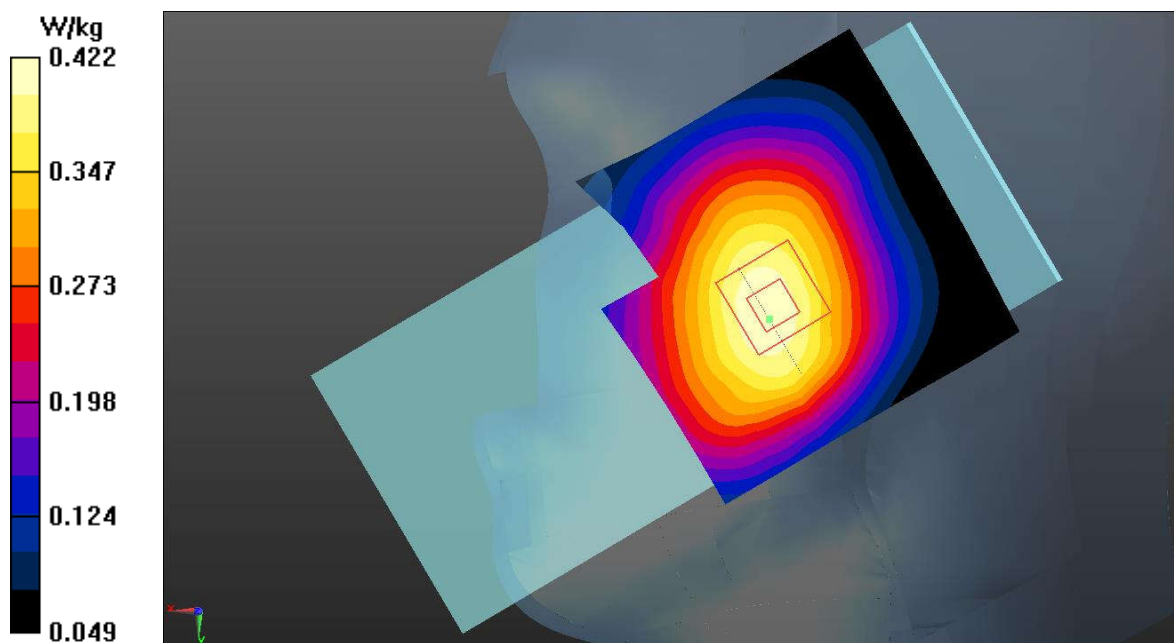


Fig.21 NR n5 Head

### NR n5 Body

Date: 2022-9-5

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 40.946$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**Rear Side Middle 50@25/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.485 W/kg

**Rear Side Middle 50@25/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.35 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.560 W/kg

**SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.329 W/kg**

Maximum value of SAR (measured) = 0.506 W/kg

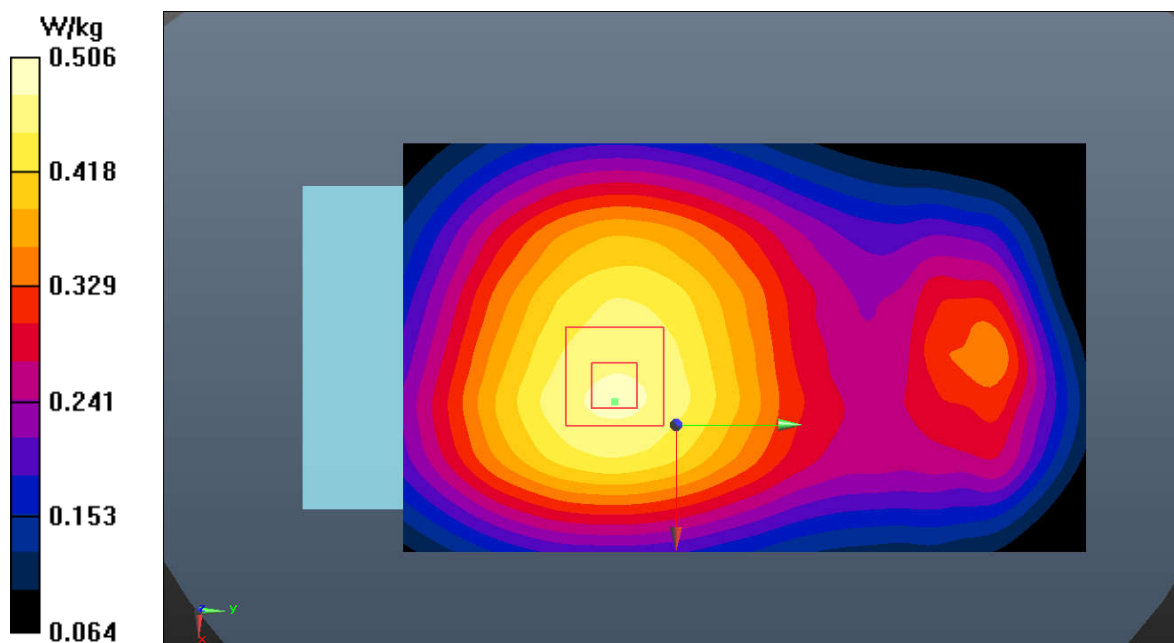


Fig.22 NR n5 Body

# NR n66 Head

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.382$  S/m;  $\epsilon_r = 39.258$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Right Cheek Middle 108@54/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.172 W/kg

**Right Cheek Middle 108@54/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.702 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.207 W/kg

**SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.085 W/kg**

Maximum value of SAR (measured) = 0.175 W/kg

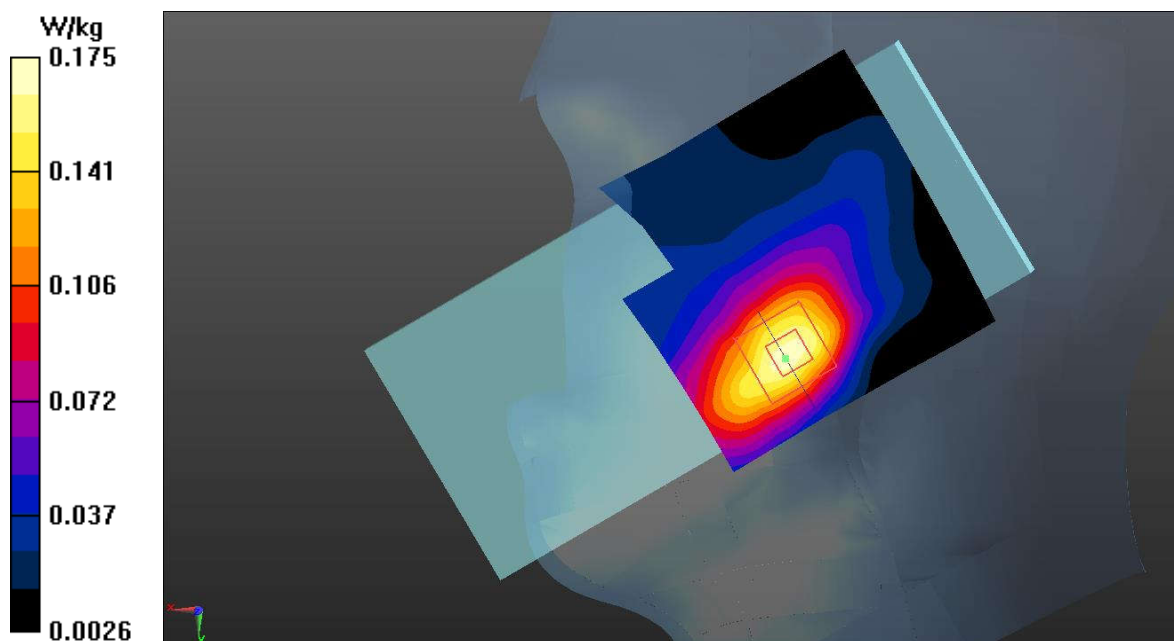


Fig.23 NR n66 Head

### NR n66 Body

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.382$  S/m;  $\epsilon_r = 39.258$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Bottom Side Middle 108@54/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.756 W/kg

**Bottom Side Middle 108@54/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.30 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.932 W/kg

**SAR(1 g) = 0.534 W/kg; SAR(10 g) = 0.290 W/kg**

Maximum value of SAR (measured) = 0.738 W/kg

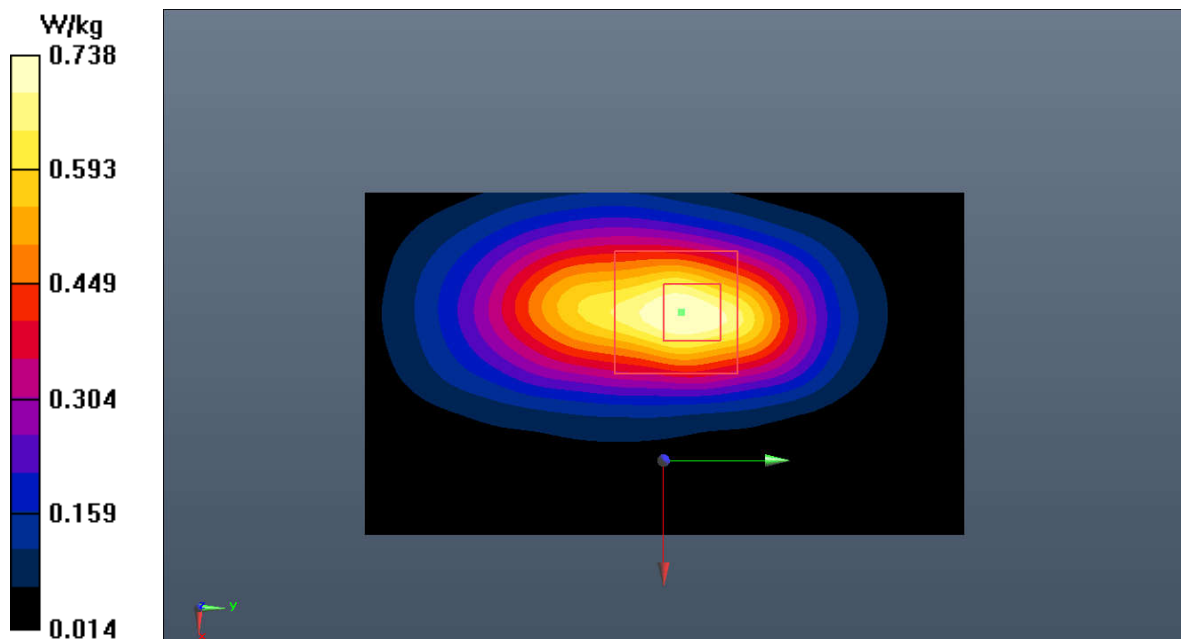


Fig.24 NR n66 Body

**NR n77 Part 27Q (PC2) Head**

Date: 2022-8-30

Electronics: DAE4 Sn1527

Medium: Head 3500MHz

Medium parameters used (interpolated):  $f = 3500.01$  MHz;  $\sigma = 2.863$  S/m;  $\epsilon_r = 38.485$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 3500.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (7.56, 7.56, 7.56)

**Right Cheek Middle 135@67/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.795 W/kg

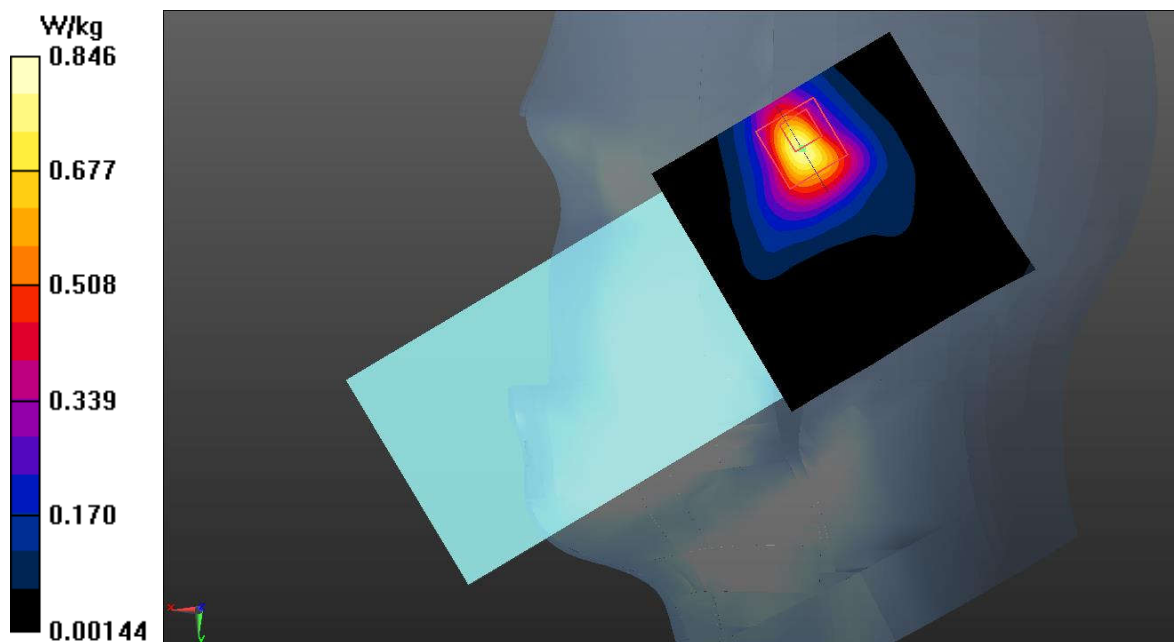
**Right Cheek Middle 135@67/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.529 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.225 W/kg**

Maximum value of SAR (measured) = 0.846 W/kg


**Fig.25 NR n77 Part 27Q Head**

**NR n77 Part 27Q (PC2) Body**

Date: 2022-8-30

Electronics: DAE4 Sn1527

Medium: Head 3500MHz

Medium parameters used (interpolated):  $f = 3500.01$  MHz;  $\sigma = 2.863$  S/m;  $\epsilon_r = 38.485$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 3500.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (7.56, 7.56, 7.56)

**Left side Middle 135@67/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.754 W/kg

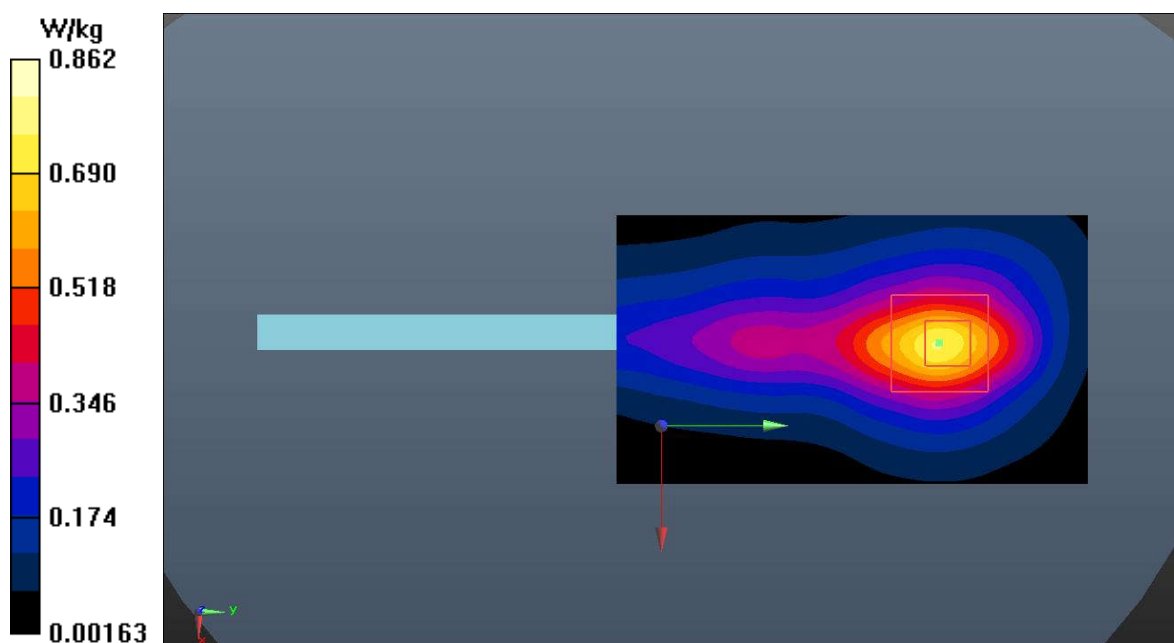
**Left side Middle 135@67/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.449 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.248 W/kg**

Maximum value of SAR (measured) = 0.862 W/kg


**Fig.26 NR n77 Part 27Q Body**

# NR n77 Part 27O (PC2) Head

Date: 2022-9-7

Electronics: DAE4 Sn1527

Medium: Head 3900MHz

Medium parameters used:  $f = 3840$  MHz;  $\sigma = 3.335$  S/m;  $\epsilon_r = 37.176$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 3840 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (7.26, 7.26, 7.26)

**Right Cheek Middle 135@67/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.706 W/kg

**Right Cheek Middle 135@67/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.256 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.189 W/kg**

Maximum value of SAR (measured) = 0.843 W/kg

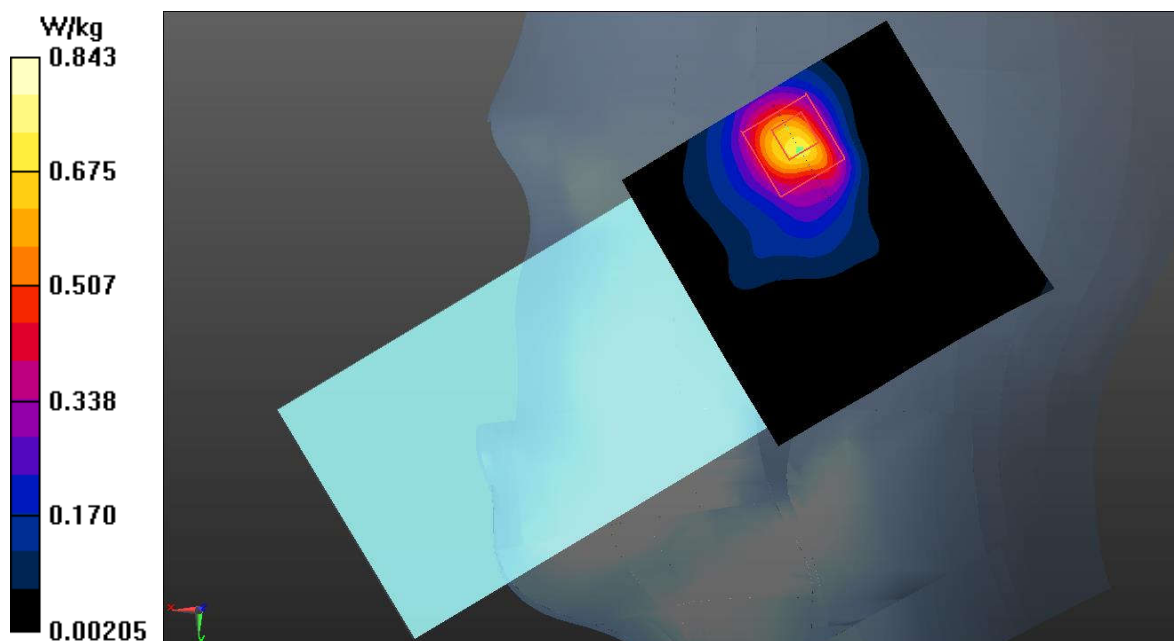


Fig.27 NR n77 Part 27O Head



# NR n77 Part 270 (PC2) Body

Date: 2022-9-7

Electronics: DAE4 Sn1527

Medium: Head 3900MHz

Medium parameters used:  $f = 3840$  MHz;  $\sigma = 3.335$  S/m;  $\epsilon_r = 37.176$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, NR (0) Frequency: 3840 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (7.26, 7.26, 7.26)

**Rear Side Middle 135@67/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.755 W/kg

**Rear Side Middle 135@67/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.069 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.209 W/kg**

Maximum value of SAR (measured) = 0.937 W/kg

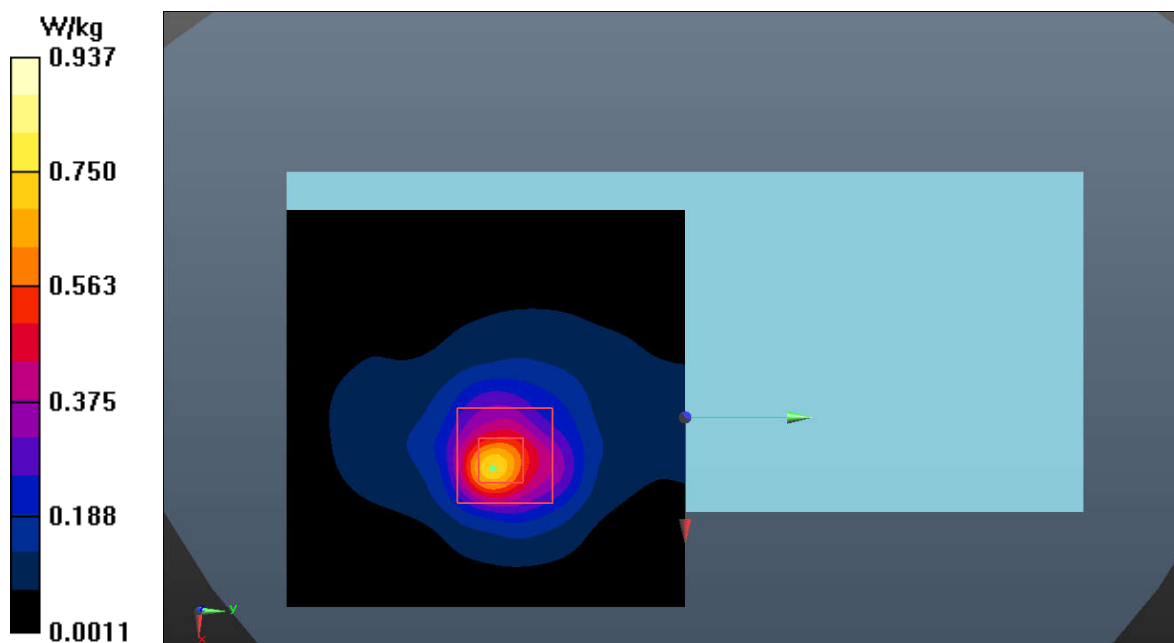


Fig.28 NR n77 Part 270 Body

### Bluetooth Head

Date: 2022-9-11

Electronics: DAE4 Sn1527

Medium: Head 2450MHz

Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.778$  S/m;  $\epsilon_r = 38.891$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, BT (0) Frequency: 2402 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.17, 8.17, 8.17)

**Left Cheek Ch.0/Area Scan (91x91x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.0415 W/kg

**Left Cheek Ch.0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.4250 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0410 W/kg

**SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.010 W/kg**

Maximum value of SAR (measured) = 0.0248 W/kg

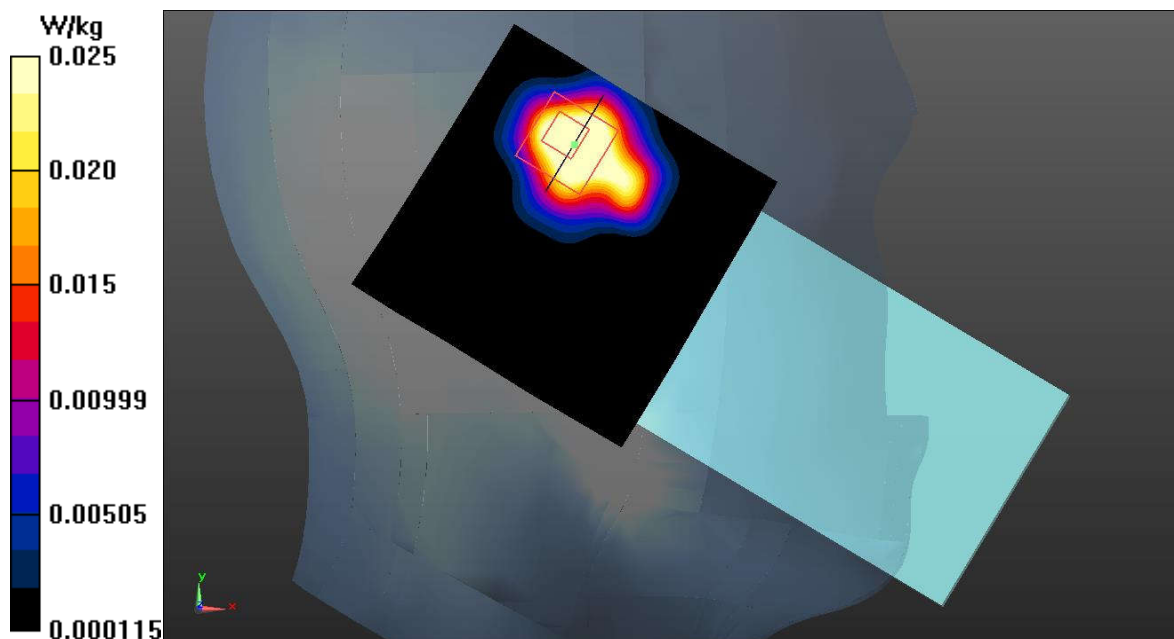


Fig.29 Bluetooth Head

### Bluetooth Body

Date: 2022-9-11

Electronics: DAE4 Sn1527

Medium: Head 2450MHz

Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.778$  S/m;  $\epsilon_r = 38.891$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, BT (0) Frequency: 2402 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.17, 8.17, 8.17)

**Rear Side Ch.0/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0415 W/kg

**Rear Side Ch.0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.8870 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0580 W/kg

**SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.014 W/kg**

Maximum value of SAR (measured) = 0.0415 W/kg

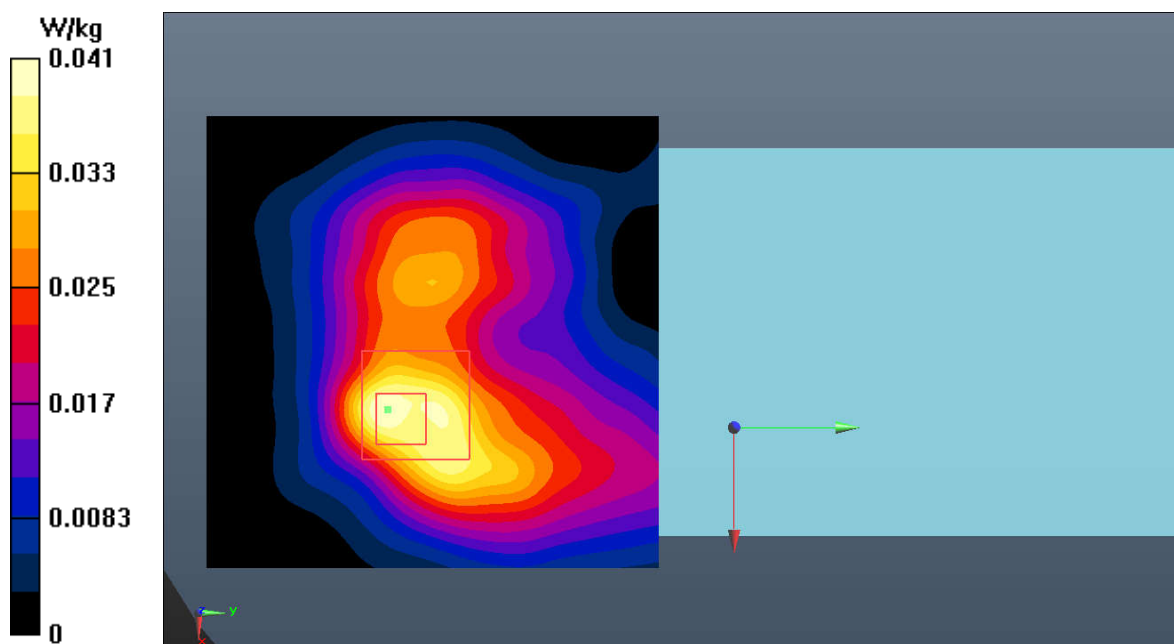


Fig.30 Bluetooth Body

### WLAN 2.4GHz Head

Date: 2022-9-11

Electronics: DAE4 Sn1527

Medium: Head 2450MHz

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.79$  S/m;  $\epsilon_r = 38.858$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WLAN (0) Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.17, 8.17, 8.17)

**Left Cheek Ch.1/Area Scan (91x91x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 1.37 W/kg

**Left Cheek Ch.1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 10.66 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.30 W/kg

**SAR(1 g) = 0.947 W/kg; SAR(10 g) = 0.417 W/kg**

Maximum value of SAR (measured) = 1.42 W/kg

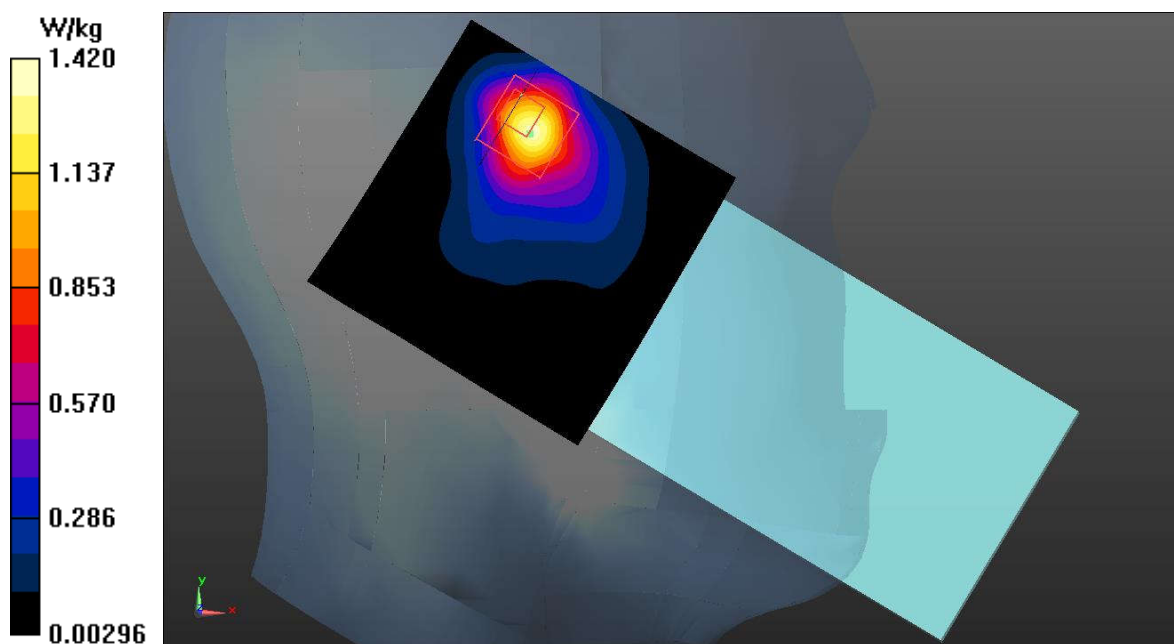


Fig.31 WLAN 2.4GHz Head

### WLAN 2.4GHz Body

Date: 2022-9-11

Electronics: DAE4 Sn1527

Medium: Head 2450MHz

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.79$  S/m;  $\epsilon_r = 38.858$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WLAN (0) Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.17, 8.17, 8.17)

**Top Side Ch.1/Area Scan (61x111x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.605 W/kg

**Top Side Ch.1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 13.62 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.759 W/kg

**SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.165 W/kg**

Maximum value of SAR (measured) = 0.535 W/kg

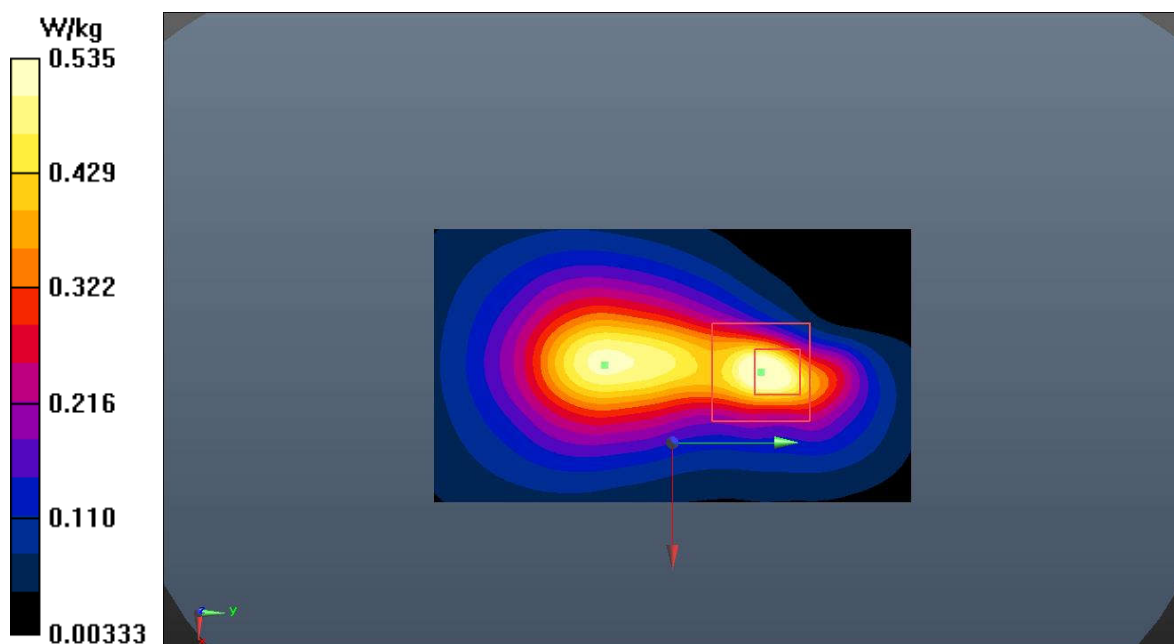


Fig.32 WLAN 2.4GHz Body

### WLAN 5GHz Head

Date: 2022-9-10

Electronics: DAE4 Sn1527

Medium: Head 5750MHz

Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 5.412$  S/m;  $\epsilon_r = 34.389$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WLAN 5G (0) Frequency: 5825 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (5.40, 5.40, 5.40)

**Left Cheek Ch.165/Area Scan (111x91x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 1.40 W/kg

**Left Cheek Ch.165/Zoom Scan (8x8x21)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  
 $dz=1.4$ mm

Reference Value = 2.384 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 4.16 W/kg

**SAR(1 g) = 0.914 W/kg; SAR(10 g) = 0.256 W/kg**

Maximum value of SAR (measured) = 1.78 W/kg

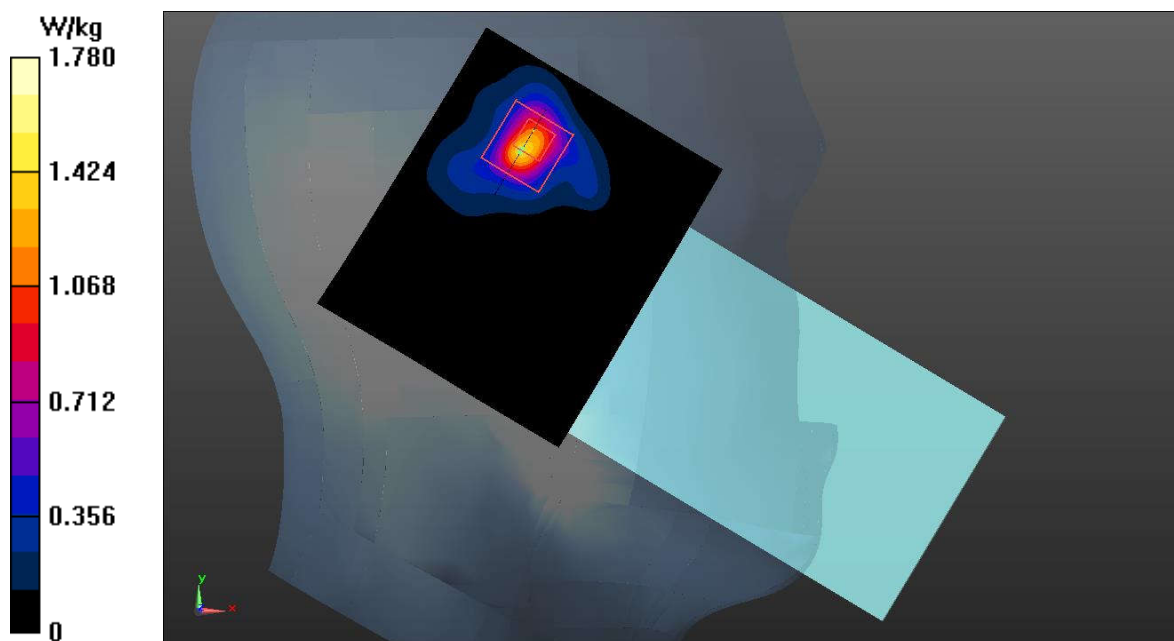


Fig.33 WLAN 5GHz Head

### WLAN 5GHz Body

Date: 2022-9-10

Electronics: DAE4 Sn1527

Medium: Head 5250MHz

Medium parameters used:  $f = 5220$  MHz;  $\sigma = 4.615$  S/m;  $\epsilon_r = 36.492$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WLAN 5G (0) Frequency: 5220 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (5.98, 5.98, 5.98)

**Rear Side Ch.44/Area Scan (91x91x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 1.93 W/kg

**Rear Side Ch.44/Zoom Scan (8x8x21)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 0.7840 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.74 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.373 W/kg**

Maximum value of SAR (measured) = 1.98 W/kg

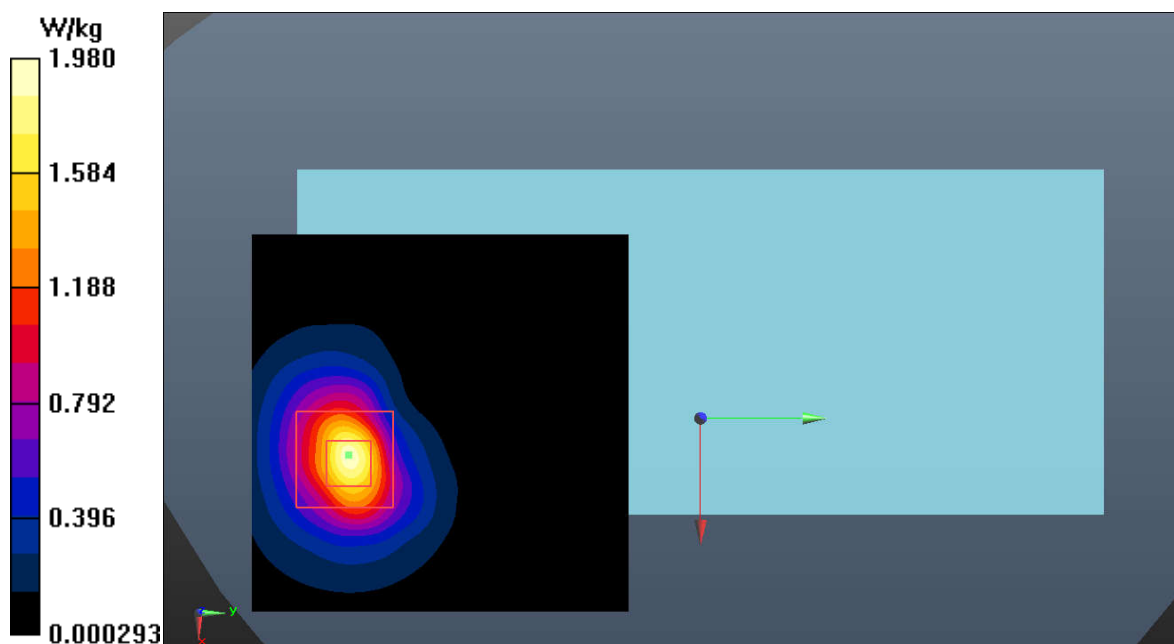


Fig.34 WLAN 5GHz Body

### WCDMA Band 2 Extremity

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.386$  S/m;  $\epsilon_r = 39.11$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WCDMA (0) Frequency: 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**Bottom Side Low/Area Scan (41x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 7.66 W/kg

**Bottom Side Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 37.82 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 13.0 W/kg

**SAR(1 g) = 5.43 W/kg; SAR(10 g) = 2.24 W/kg**

Maximum value of SAR (measured) = 9.60 W/kg

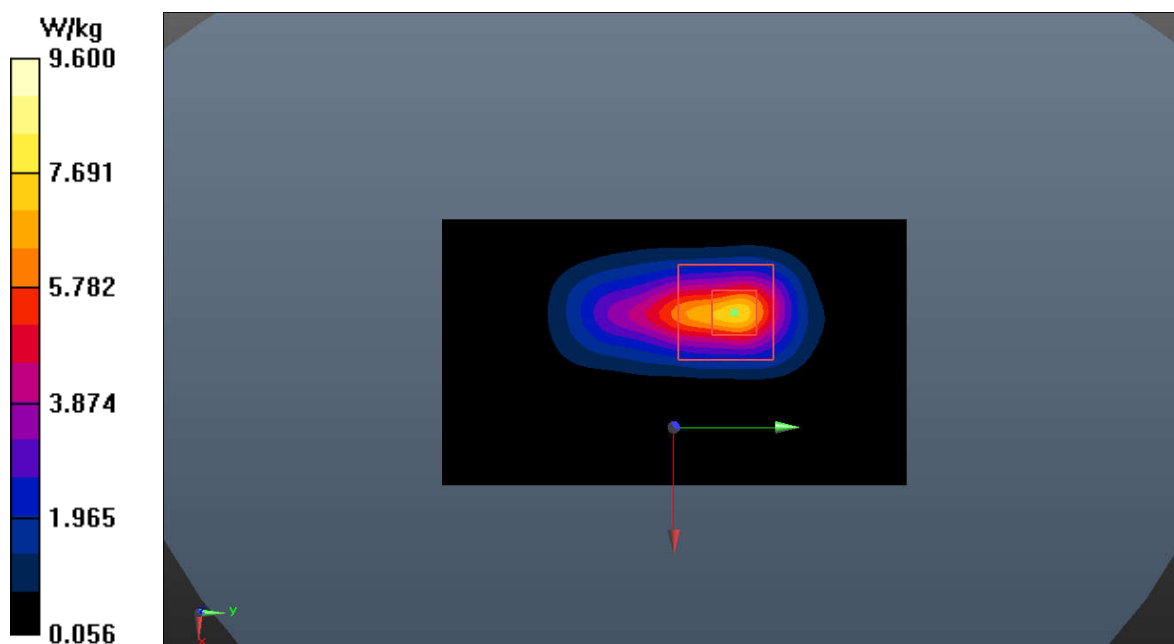


Fig.35 WCDMA Band 2 Extremity



### WCDMA Band 4 Extremity

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.389 \text{ S/m}$ ;  $\epsilon_r = 39.226$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, WCDMA (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Bottom Side High/Area Scan (41x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 8.29 W/kg

**Bottom Side High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 39.66 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 14.3 W/kg

**SAR(1 g) = 6.05 W/kg; SAR(10 g) = 2.54 W/kg**

Maximum value of SAR (measured) = 10.6 W/kg

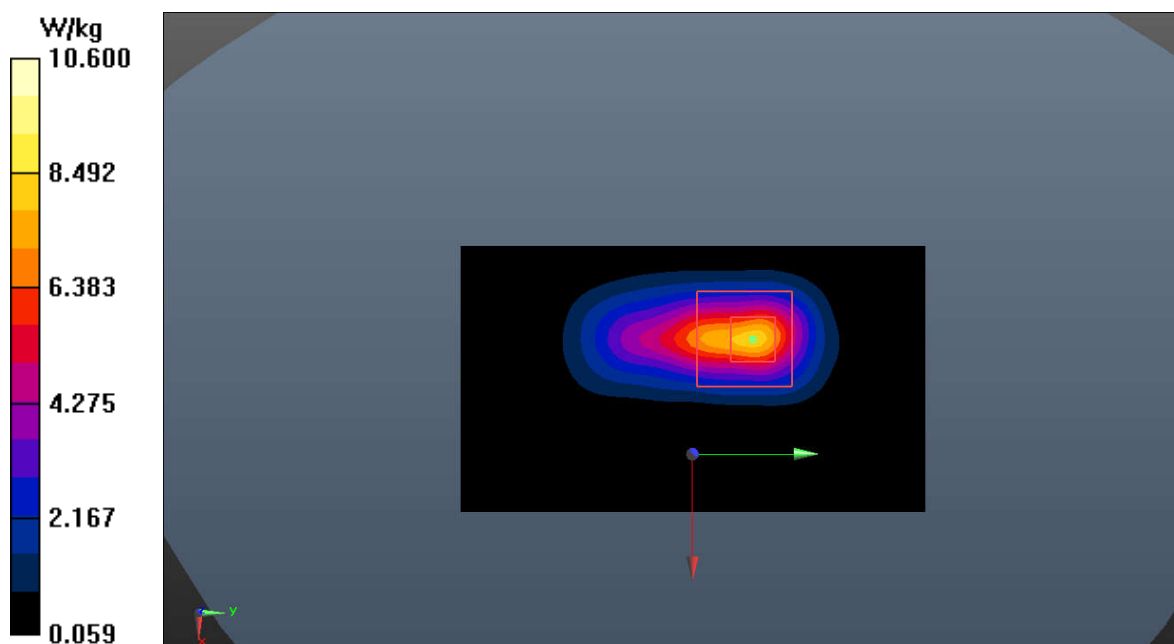


Fig.36 WCDMA Band 4 Extremity

### LTE Band 2 Extremity

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.393$  S/m;  $\epsilon_r = 39.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**Bottom Side Low 1RB50/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 7.25 W/kg

**Bottom Side Low 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.35 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 10.4 W/kg

**SAR(1 g) = 4.45 W/kg; SAR(10 g) = 1.84 W/kg**

Maximum value of SAR (measured) = 6.43 W/kg

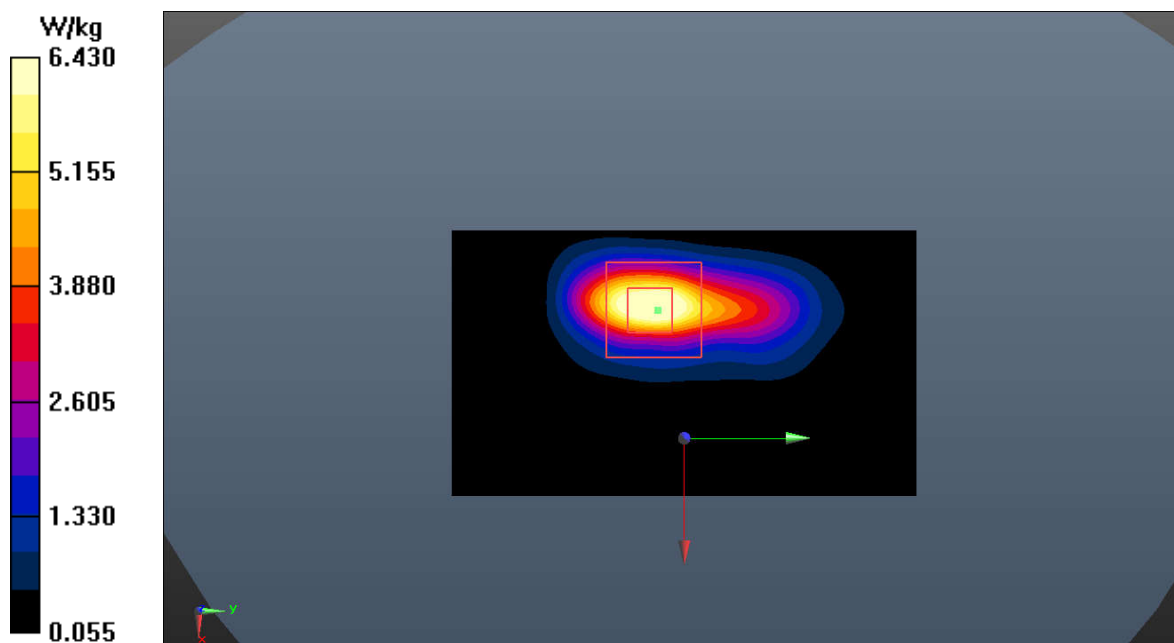


Fig.37 LTE Band 2 Extremity

### LTE Band 4 Extremity

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.382$  S/m;  $\epsilon_r = 39.258$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Bottom Side High 1RB50/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 7.90 W/kg

**Bottom Side High 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.88 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 11.4 W/kg

**SAR(1 g) = 5.03 W/kg; SAR(10 g) = 2.12 W/kg**

Maximum value of SAR (measured) = 7.04 W/kg

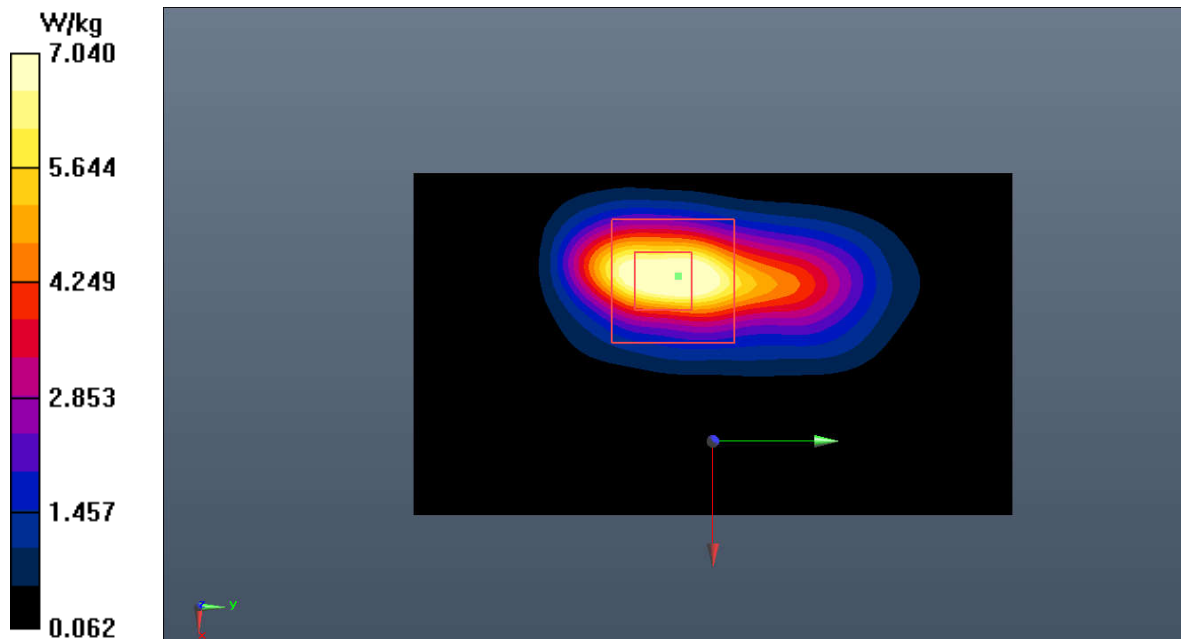


Fig.38 LTE Band 4 Extremity

### LTE Band 66 Extremity

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.382$  S/m;  $\epsilon_r = 39.258$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, LTE\_FDD (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**Bottom Side Middle 1RB50/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 8.33 W/kg

**Bottom Side Middle 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.99 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 12.1 W/kg

**SAR(1 g) = 5.40 W/kg; SAR(10 g) = 2.29 W/kg**

Maximum value of SAR (measured) = 7.48 W/kg

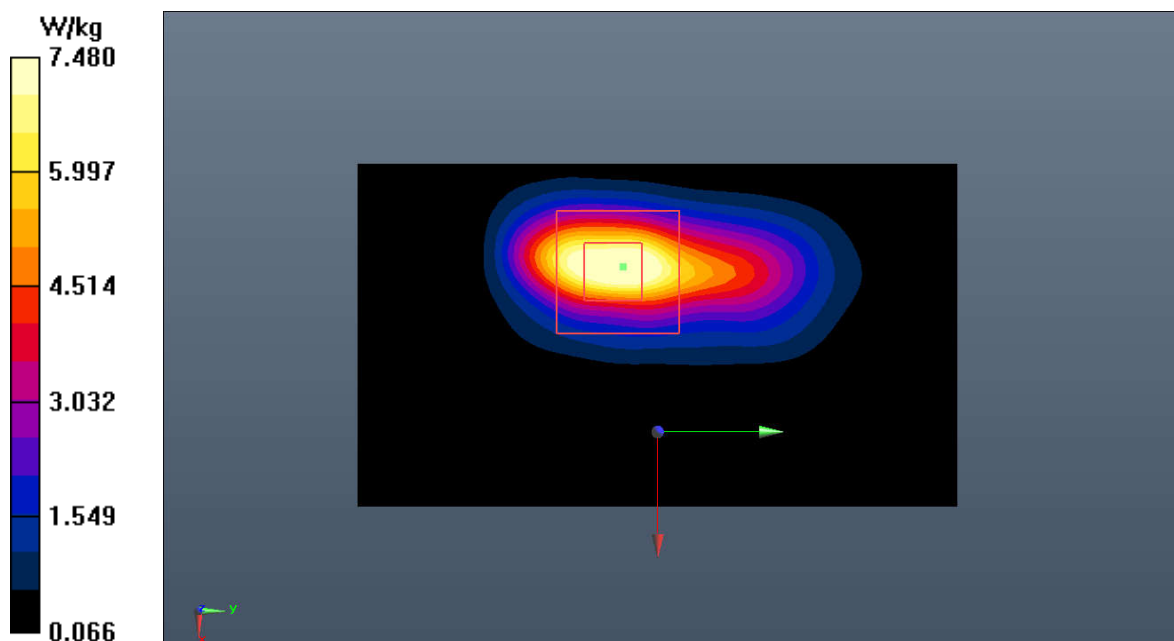


Fig.39 LTE Band 66 Extremity

### WLAN 5GHz Extremity

Date: 2022-9-10

Electronics: DAE4 Sn1527

Medium: Head 5250MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.723$  S/m;  $\epsilon_r = 36.276$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: UID 0, WLAN 5G (0) Frequency: 5300 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (5.98, 5.98, 5.98)

**Rear Side Ch.60/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.5 W/kg

**Rear Side Ch.60/Zoom Scan (8x8x21)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.005 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 69.7 W/kg

**SAR(1 g) = 11.6 W/kg; SAR(10 g) = 2.43 W/kg**

Maximum value of SAR (measured) = 26.3 W/kg

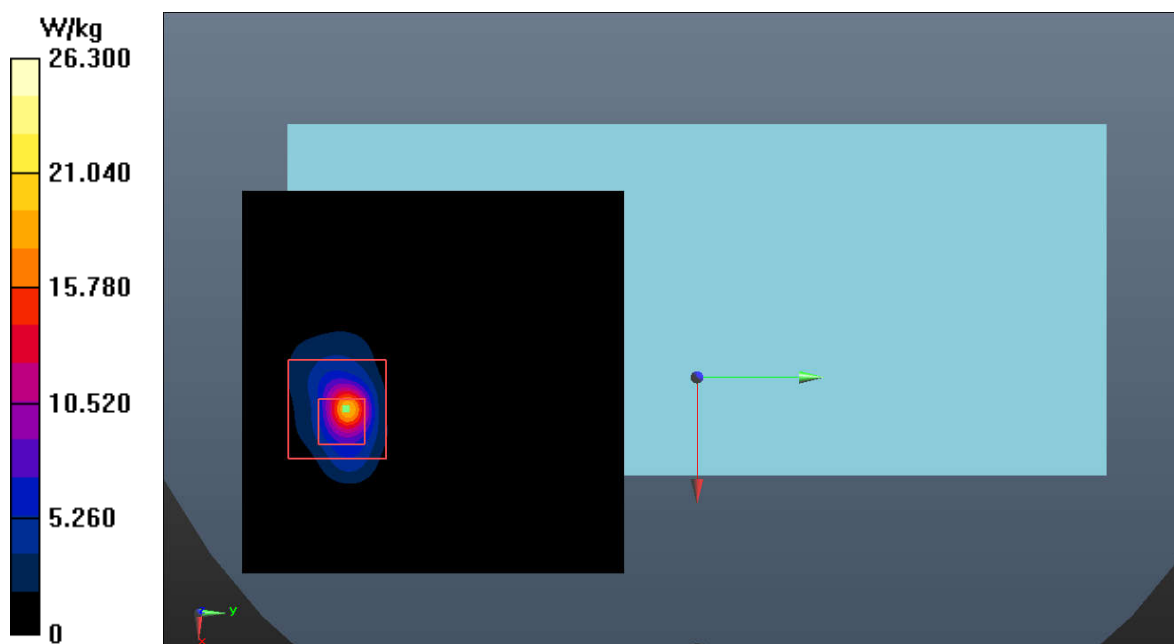


Fig.40 WLAN 5GHz Extremity

## ANNEX B: System Verification Results

### 750MHz

Date: 2022-9-2

Electronics: DAE4 Sn1527

Medium: Head 750MHz

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.881 \text{ S/m}$ ;  $\epsilon_r = 42.567$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: CW\_TMC Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**System Validation/Area Scan (81x161x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value = 59.345 V/m; Power Drift = -0.06 dB

**SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.40 W/kg**

Maximum value of SAR (interpolated) = 2.66 W/kg

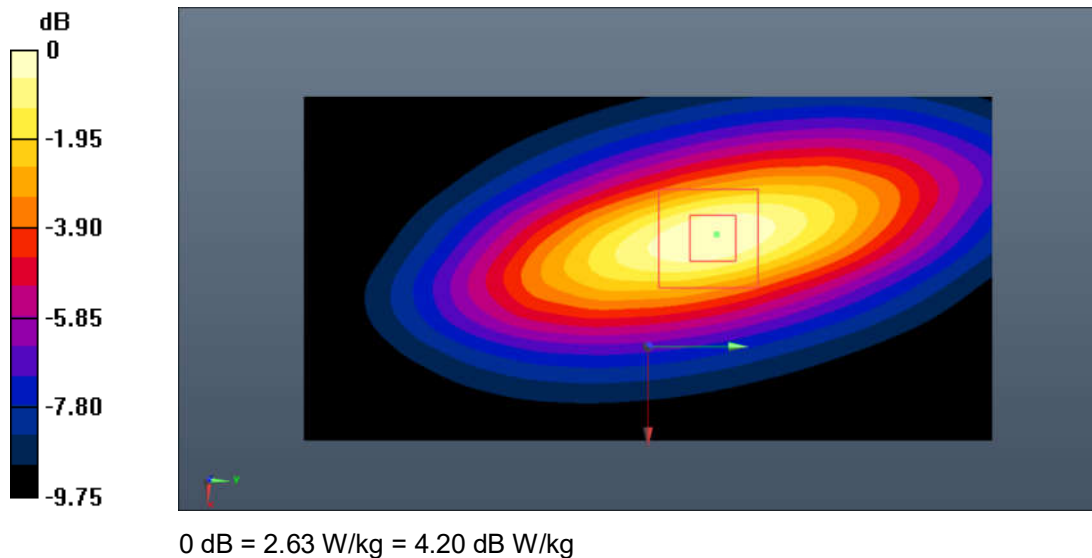
**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 59.345 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.07 W/kg

**SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.38 W/kg**

Maximum value of SAR (measured) = 2.63 W/kg



**Fig.B.1. Validation 750MHz 250mW**

### 835MHz

Date: 2022-9-5

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.922 \text{ S/m}$ ;  $\epsilon_r = 40.964$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: CW\_TMC Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (11.12, 11.12, 11.12)

**System Validation/Area Scan (91x161x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value = 63.158 V/m; Power Drift = 0.12 dB

**SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.58 W/kg**

Maximum value of SAR (interpolated) = 3.59 W/kg

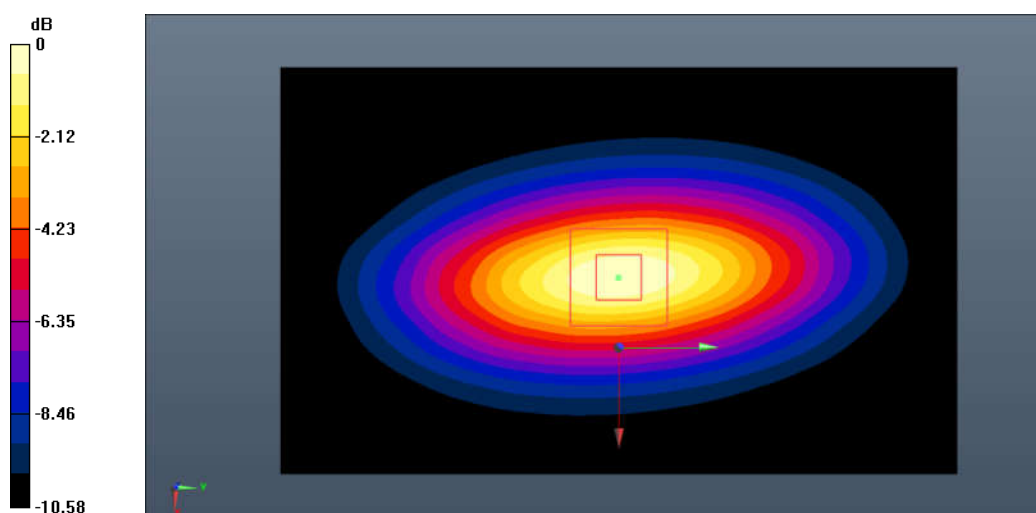
**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 63.158 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 4.24 W/kg

**SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.61 W/kg**

Maximum value of SAR (measured) = 3.61 W/kg



0 dB = 3.61 W/kg = 5.58 dB W/kg

**Fig.B.2. Validation 835MHz 250mW**

### 1750MHz

Date: 2022-9-18

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.386$  S/m;  $\epsilon_r = 39.238$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: CW\_TMC Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (9.22, 9.22, 9.22)

**System Validation/Area Scan (81x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 80.119 V/m; Power Drift = 0.05 dB

**SAR(1 g) = 9.22 W/kg; SAR(10 g) = 4.90 W/kg**

Maximum value of SAR (interpolated) = 11.1 W/kg

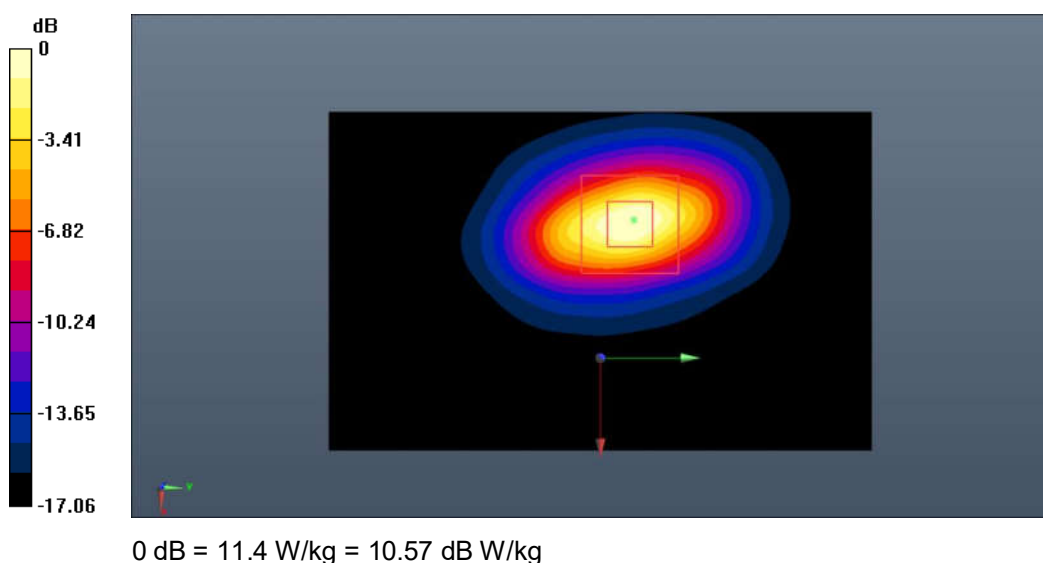
**System Validation/Zoom Scan (7x7x7)/Cube0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.119 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 22.6 W/kg

**SAR(1 g) = 9.43 W/kg; SAR(10 g) = 4.99 W/kg**

Maximum value of SAR (measured) = 11.4 W/kg



**Fig.B.3. Validation 1750MHz 250mW**



# 1900MHz

Date: 2022-8-28

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.428 \text{ S/m}$ ;  $\epsilon_r = 38.924$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: CW\_TMC Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.90, 8.90, 8.90)

**System Validation/Area Scan (91x91x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value = 82.072 V/m; Power Drift = 0.04 dB

**SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.19 W/kg**

Maximum value of SAR (interpolated) = 12.2 W/kg

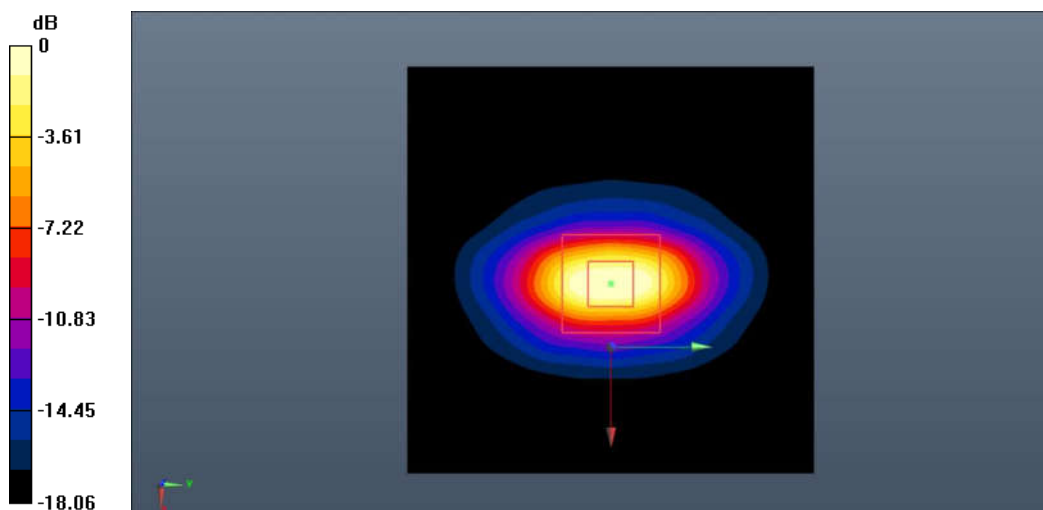
**System Validation/Zoom Scan (7x7x7)/Cube0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 82.072 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 26.5 W/kg

**SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.28 W/kg**

Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dB W/kg

**Fig.B.4. Validation 1900MHz 250mW**

## 2450MHz

Date: 2022-9-11

Electronics: DAE4 Sn1527

Medium: Head 2450MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.835$  S/m;  $\epsilon_r = 38.733$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: CW\_TMC Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (8.17, 8.17, 8.17)

**System Validation/Area Scan (81x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 91.783 V/m; Power Drift = 0.10 dB

**SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.07 W/kg**

Maximum value of SAR (interpolated) = 15.5 W/kg

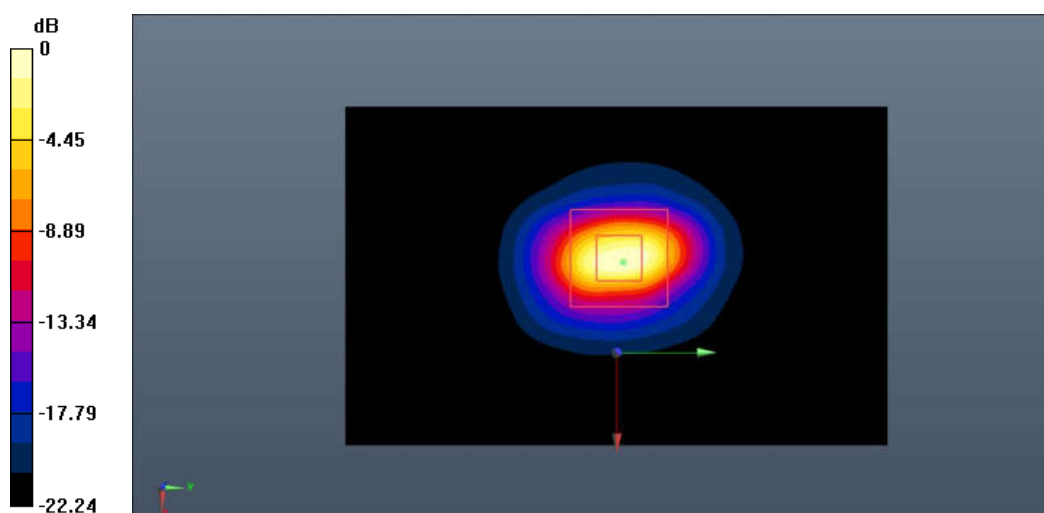
**System Validation/Zoom Scan (7x7x7)/Cube0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.783 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 35.9 W/kg

**SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.17 W/kg**

Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 15.7 W/kg = 11.96 dB W/kg

**Fig.B.5. Validation 2450MHz 250mW**

### 3500MHz

Date: 2022-8-30

Electronics: DAE4 Sn1527

Medium: Head 3500MHz

Medium parameters used:  $f = 3500$  MHz;  $\sigma = 2.863$  S/m;  $\epsilon_r = 38.485$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: CW\_TMC Frequency: 3500 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (7.56, 7.56, 7.56)

**System Validation/Area Scan (61x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 69.842 V/m; Power Drift = -0.08 dB

**SAR(1 g) = 6.68 W/kg; SAR(10 g) = 2.54 W/kg**

Maximum value of SAR (interpolated) = 7.68 W/kg

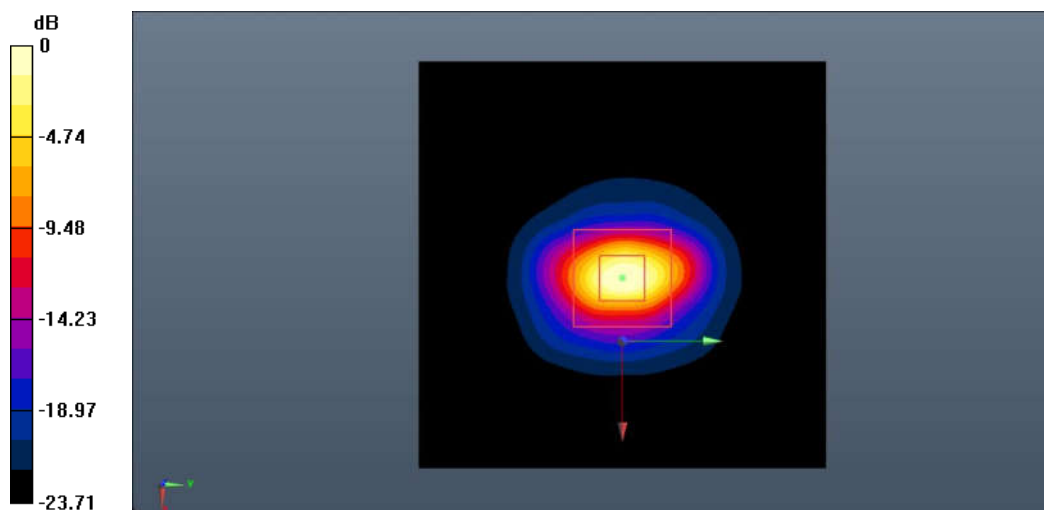
**System Validation/Zoom Scan (7x7x7)/Cube0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 69.842 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 16.6 W/kg

**SAR(1 g) = 6.51 W/kg; SAR(10 g) = 2.49 W/kg**

Maximum value of SAR (measured) = 7.63 W/kg



0 dB = 7.63 W/kg = 8.83 dB W/kg

**Fig.B.6. Validation 3500MHz 100mW**

### 3900MHz

Date: 2022-9-7

Electronics: DAE4 Sn1527

Medium: Head 3900MHz

Medium parameters used:  $f = 3900$  MHz;  $\sigma = 3.406$  S/m;  $\epsilon_r = 36.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: CW\_TMC Frequency: 3900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (7.26, 7.26, 7.26)

**System Validation/Area Scan (61x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 74.486 V/m; Power Drift = 0.05 dB

**SAR(1 g) = 7.33 W/kg; SAR(10 g) = 2.51 W/kg**

Maximum value of SAR (interpolated) = 8.21 W/kg

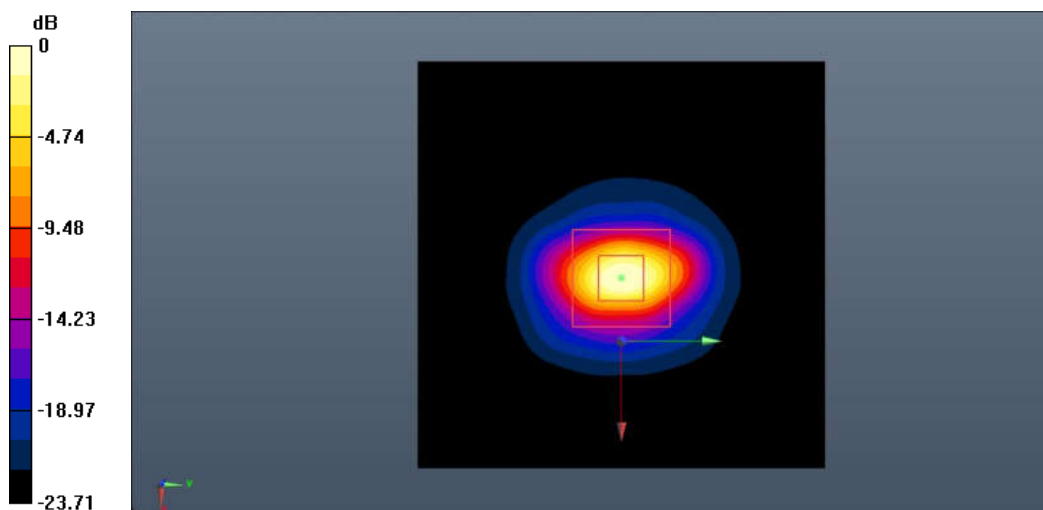
**System Validation/Zoom Scan (7x7x7)/Cube0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 74.486 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 21.9 W/kg

**SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.55 W/kg**

Maximum value of SAR (measured) = 8.27 W/kg



0 dB = 8.27 W/kg = 9.18 dB W/kg

**Fig.B.7. Validation 3900MHz 100mW**

### 5250MHz

Date: 2022-9-10

Electronics: DAE4 Sn1527

Medium: Head 5250MHz

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.655$  S/m;  $\epsilon_r = 36.411$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: CW\_TMC Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (5.98, 5.98, 5.98)

**System Validation/Area Scan (61x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 65.054 V/m; Power Drift = -0.03 dB

**SAR(1 g) = 7.83 W/kg; SAR(10 g) = 2.27 W/kg**

Maximum value of SAR (interpolated) = 9.82 W/kg

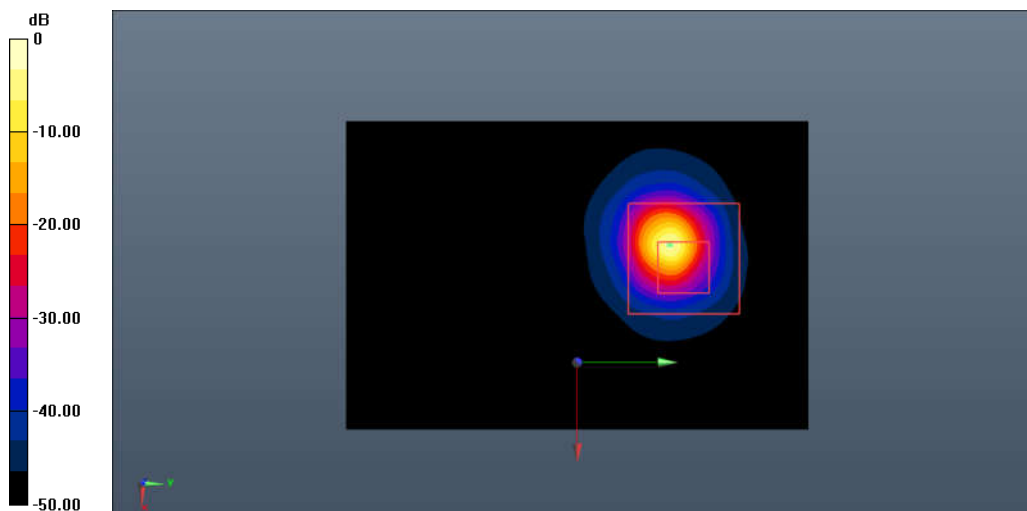
**System Validation/Zoom Scan (8x8x21)/Cube0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.054 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 24.8 W/kg

**SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.24 W/kg**

Maximum value of SAR (measured) = 9.77 W/kg



0 dB = 9.77 W/kg = 9.90 dB W/kg

**Fig.B.8. Validation 5250MHz 100mW**

### 5600MHz

Date: 2022-9-10

Electronics: DAE4 Sn1527

Medium: Head 5600MHz

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.173$  S/m;  $\epsilon_r = 34.849$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Communication System: CW\_TMC Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (5.47, 5.47, 5.47)

**System Validation/Area Scan (61x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 68.975 V/m; Power Drift = 0.11 dB

**SAR(1 g) = 8.43 W/kg; SAR(10 g) = 2.35 W/kg**

Maximum value of SAR (interpolated) = 10.4 W/kg

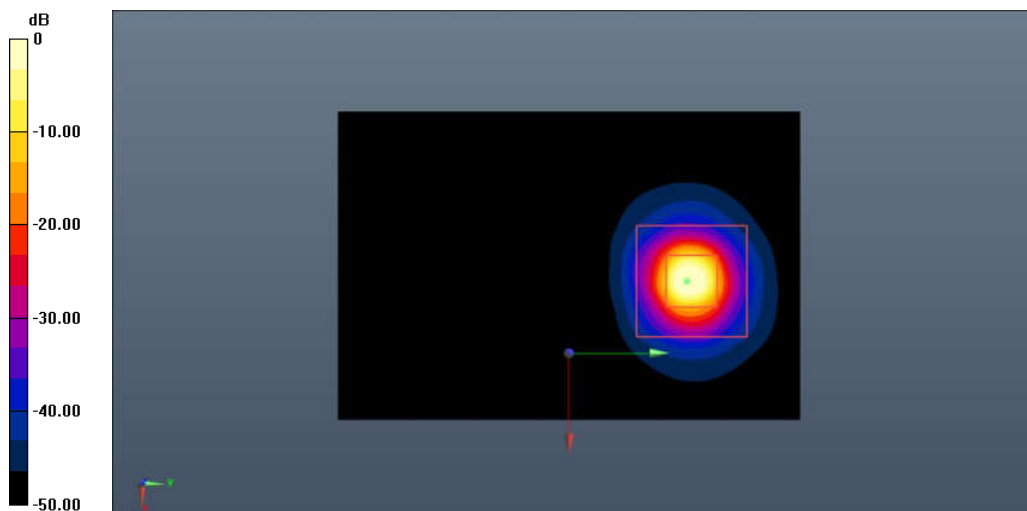
**System Validation/Zoom Scan (8x8x21)/Cube0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.975 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 28.2 W/kg

**SAR(1 g) = 8.56 W/kg; SAR(10 g) = 2.40 W/kg**

Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 10.6 W/kg = 10.25 dB W/kg

**Fig.B.9. Validation 5600MHz 100mW**

### 5750MHz

Date: 2022-9-10

Electronics: DAE4 Sn1527

Medium: Head 5750MHz

Medium parameters used:  $f = 5750 \text{ MHz}$ ;  $\sigma = 5.311 \text{ S/m}$ ;  $\epsilon_r = 34.591$ ;  $\rho = 1000 \text{ kg/m}^3$

Communication System: CW\_TMC Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7621 ConvF (5.40, 5.40, 5.40)

**System Validation/Area Scan (61x91x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value = 66.542 V/m; Power Drift = 0.13 dB

**SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.21 W/kg**

Maximum value of SAR (interpolated) = 10.0 W/kg

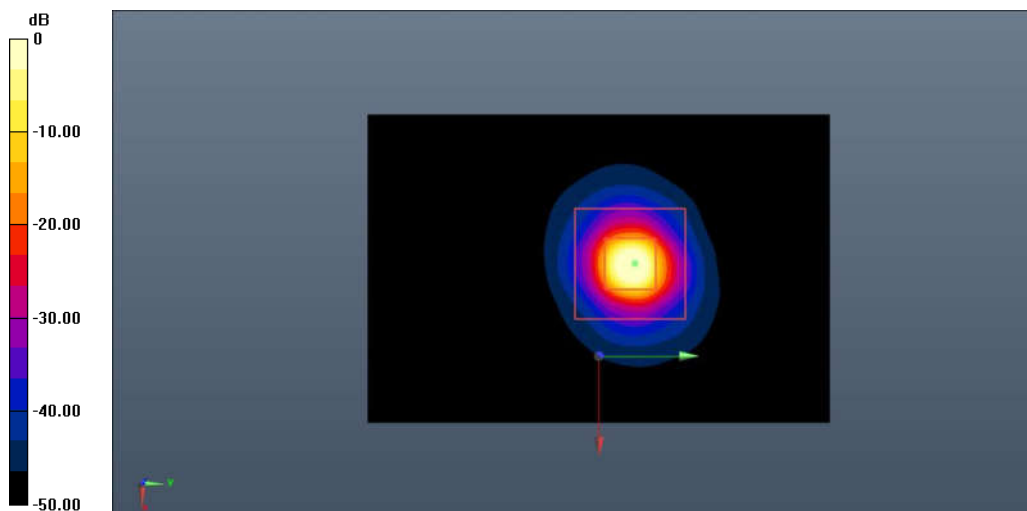
**System Validation/Zoom Scan (8x8x21)/Cube0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$

Reference Value = 66.542 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 26.8 W/kg

**SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.26 W/kg**

Maximum value of SAR (measured) = 10.3 W/kg



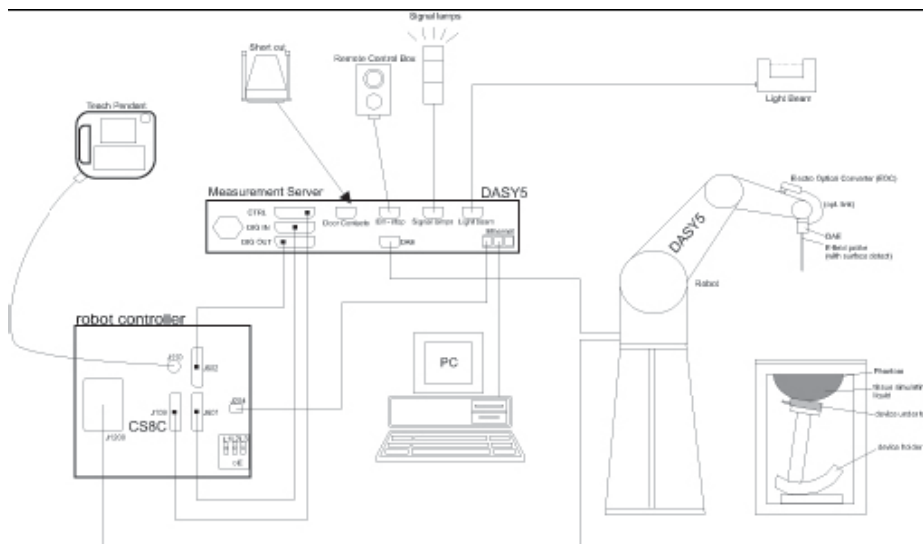
0 dB = 10.3 W/kg = 10.13 dB W/kg

**Fig.B.10. Validation 5750MHz 100mW**

## ANNEX C: SAR Measurement Setup

### C.1. Measurement Set-up

DASY5 system for performing compliance tests is illustrated above graphically. This system consists of the following items:



Picture C.1 SAR Lab Test Measurement Set-up

- A standard high precision 6-axis robot (Stäubli TX=RX family) 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 WinXP and the DASY5 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.



## C.2. DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY5 software reads the reflection during a software approach and looks for the maximum using 2<sup>nd</sup> order curve fitting. The approach is stopped at reaching the maximum.

### Probe Specifications:

|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| <b>Model:</b>         | <b>ES3DV3, EX3DV4</b>                                                                                      |
| <b>Frequency</b>      | <b>10MHz — 6.0GHz(EX3DV4)</b>                                                                              |
| <b>Range:</b>         | <b>10MHz — 4GHz(ES3DV3)</b>                                                                                |
| <b>Calibration:</b>   | <b>In head and body simulating tissue at<br/>Frequencies from 835 up to 5800MHz</b>                        |
| <b>Linearity:</b>     | <b>± 0.2 dB(30 MHz to 6 GHz) for EX3DV4<br/>± 0.2 dB(30 MHz to 4 GHz) for ES3DV3</b>                       |
| <b>Dynamic Range:</b> | <b>10 mW/kg — 100W/kg</b>                                                                                  |
| <b>Probe Length:</b>  | <b>330 mm</b>                                                                                              |
| <b>Probe Tip</b>      |                                                                                                            |
| <b>Length:</b>        | <b>20 mm</b>                                                                                               |
| <b>Body Diameter:</b> | <b>12 mm</b>                                                                                               |
| <b>Tip Diameter:</b>  | <b>2.5 mm (3.9 mm for ES3DV3)</b>                                                                          |
| <b>Tip-Center:</b>    | <b>1 mm (2.0mm for ES3DV3)</b>                                                                             |
| <b>Application:</b>   | <b>SAR Dosimetry Testing<br/>Compliance tests of mobile phones<br/>Dosimetry in strong gradient fields</b> |



Picture C.2 Near-field Probe



Picture C.3 E-field Probe

### C.3. E-field Probe Calibration

Each E-Probe/Probe Amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density ( $1 \text{ mW/cm}^2$ ) using an RF Signal generator, TEM cell, and RF Power Meter.

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equate to  $1 \text{ mW/cm}^2$ .

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:

$\Delta t$  = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

$\Delta T$  = Temperature increase due to RF exposure.

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

Where:

$\sigma$  = Simulated tissue conductivity,

$\rho$  = Tissue density ( $\text{kg/m}^3$ ).