



Registration  
No.910917

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# TEST REPORT FOR SAR TESTING

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Report No.: SRTC2017-9004(F)-0046

Product Name: Mobile Phone

Product Model: Hisense F10

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Specification: FCC Part 2.1093

IEEE Std 1528-2013

FCC RF Exposure KDB Procedures

FCC ID: 2ADOBF10

The State Radio\_monitoring\_center Testing Center (SRTC)

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## Contents

|   |            |
|---|------------|
| <b>1. GENERAL INFORMATION.....</b>                            | <b>2</b>   |
| 1.1 NOTES OF THE TEST REPORT.....                             | 2          |
| 1.2 INFORMATION ABOUT THE TESTING LABORATORY.....             | 2          |
| 1.3 APPLICANT’S DETAILS.....                                  | 2          |
| 1.4 MANUFACTURER’S DETAILS.....                               | 2          |
| 1.5 TEST ENVIRONMENT.....                                     | 3          |
| <b>2. DESCRIPTION OF THE DEVICE UNDER TEST.....</b>           | <b>4</b>   |
| 2.1 FINAL EQUIPMENT BUILD STATUS.....                         | 4          |
| 2.2 SUPPORT EQUIPMENT.....                                    | 5          |
| <b>3. REFERENCE SPECIFICATION.....</b>                        | <b>5</b>   |
| <b>4. TEST CONDITIONS.....</b>                                | <b>6</b>   |
| 4.1 PICTURE TO DEMONSTRATE THE REQUIRED LIQUID DEPTH.....     | 6          |
| 4.2 TEST SIGNAL, FREQUENCIES AND OUTPUT POWER.....            | 6          |
| 4.3 SAR MEASUREMENT SET-UP.....                               | 6          |
| 4.4 PHANTOMS.....   | 7          |
| 4.5 TISSUE SIMULANTS.....                                     | 7          |
| 4.6 DESCRIPTION OF THE TEST PROCEDURE.....                    | 8          |
| <b>5 RESULT SUMMAR.....</b>                                   | <b>10</b>  |
| <b>6 TEST RESULT.....</b>                                     | <b>12</b>  |
| 6.1 MANUFACTURING TOLERANCE.....                              | 12         |
| 6.2 GSM MEASUREMENT RESULT.....                               | 19         |
| 6.3 WCDMA MEASUREMENT RESULT.....                             | 21         |
| 6.4 LTE MEASUREMENT RESULT.....                               | 24         |
| 6.5 BLUETOOTH MEASUREMENT RESULT.....                         | 54         |
| 6.6 WI-FI MEASUREMENT RESULT.....                             | 55         |
| 6.7 STANDALONE SAR TEST EXCLUSION CONSIDERATIONS.....         | 57         |
| 6.8 RF EXPOSURE CONDITIONS.....                               | 59         |
| 6.9 SYSTEM CHECKING.....                                      | 61         |
| 6.10 SAR TEST RESULT.....                                     | 62         |
| 6.11 SAR MEASUREMENT VARIABILITY.....                         | 89         |
| 6.12 SIMULTANEOUS TRANSMISSION SAR ANALYSIS.....              | 90         |
| <b>7 MEASUREMENT UNCERTAINTY.....</b>                         | <b>92</b>  |
| <b>8 TEST EQUIPMENTS.....</b>                                 | <b>93</b>  |
| <b>ANNEX A – TEST PLOTS.....</b>                              | <b>95</b>  |
| <b>ANNEX B – RELEVANT PAGES FROM CALIBRATION REPORTS.....</b> | <b>226</b> |
| <b>ANNEX C – PHOTOGRAPH.....</b>                              | <b>245</b> |

## 1. GENERAL INFORMATION

### 1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

### 1.2 Information about the testing laboratory

|                    |   |
|--------------------|---|
| Company:           | The State Radio_monitoring_center Testing Center (SRTC) |
| Address:           | No.80 Beilishi Road, Xicheng District                   |
| City:              | Beijing   |
| Country or Region: | P.R.China   |
| Contacted person:  | Liu Jia   |
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| Email:             | liujiarf@srtc.org.cn                                    |

### 1.3 Applicant's details

|                    |   |
|--------------------|---|
| Company:           | Hisense International Co., Ltd.                                     |
| Address:           | Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China |
| City:              | Qingdao   |
| Country or Region: | P.R.China   |
| Grantee Code:      | 2ADOB   |
| Contacted person:  | Zhang Kelin   |
| Tel:               | +86-532-55753242  |
| Fax:               | ---   |
| Email:             | zhangkelin@hisense.com  |

### 1.4 Manufacturer's details

|                    |   |
|--------------------|---|
| Company:           | Hisense Communications Co., Ltd.  |
| Address:           | 218 Qianwangang Road, Economic & Technological Development Zone, Qingdao, Shandong Province, P.R. China |
| City:              | Qingdao   |
| Country or Region: | P.R.China   |
| Contacted person:  | Li Xin  |
| Tel:               | +86-532-55755993  |
| Fax:               | ---   |
| Email:             | linxin12@hisense.com  |

### 1.5 Test Environment

|   |            |
|---|------------|
| Date of Receipt of test sample at SRTC: | 2017.05.02 |
| Testing Start Date:                     | 2017.05.02 |
| Testing End Date:                       | 2017.05.04 |

| Environmental Data: | Temperature (°C) | Humidity (%) |
|---------------------|------------------|--------------|
| Ambient             | 24.0             | 30.0         |

|                                 |      |
|---------------------------------|------|
| Normal Supply Voltage (V d.c.): | 3.80 |
|---------------------------------|------|

## 2. DESCRIPTION OF THE DEVICE UNDER TEST

### 2.1 Final Equipment Build Status

|   |   |
|---|---|
| Wireless Technology and Frequency Bands | GSM Band : GSM850/PCS1900<br>WCDMA Band: FDD2/4/5<br>LTE Band: FDD2/4/5/7<br>Wi-Fi Band: 2400MHz~2483.5MHz<br>Bluetooth Band: 2400MHz~2483.5MHz   |
| Mode                                    | <p>GSM</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Voice (GMSK)</li> <li><input checked="" type="checkbox"/> GPRS (GMSK)</li> <li><input checked="" type="checkbox"/> EGPRS (GMSK/8PSK)</li> </ul> <p>WCDMA</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> UMTS Rel. 99 (Voice &amp; Data)</li> <li><input checked="" type="checkbox"/> HSDPA (Rel. 5)</li> <li><input checked="" type="checkbox"/> HSUPA (Rel. 6)</li> <li><input type="checkbox"/> HSPA+ (Rel. )</li> <li><input type="checkbox"/> DC-HSDPA (Rel. )</li> </ul> <p>LTE</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> QPSK</li> <li><input checked="" type="checkbox"/> 16QAM</li> </ul> <p>Wi-Fi 2.4GHz</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 802.11b</li> <li><input checked="" type="checkbox"/> 802.11g</li> <li><input checked="" type="checkbox"/> 802.11n (20MHz)</li> <li><input type="checkbox"/> 802.11n (40MHz)</li> </ul> <p>Bluetooth</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> BR(GFSK)</li> <li><input checked="" type="checkbox"/> EDR(<math>\pi/4</math> DQPSK , 8-DPSK)</li> <li><input checked="" type="checkbox"/> BLE(GFSK)</li> </ul> |
| Duty Cycle                              | GSM Voice: 12.5%;<br>GPRS: 12.5% (1 Slot), 25% (2 Slots), 37.5% (3 Slots), 50% (4 Slots)<br>WCDMA: 100%<br>Wi-Fi 802.11b/g/n: 100%<br>Bluetooth: 32.25% (DH1), 66.68% (DH3), 77.52% (DH5)   |
| GPRS Multi-Slot Class                   | <ul style="list-style-type: none"> <li><input type="checkbox"/> Class 8 - One Up</li> <li><input type="checkbox"/> Class 10 - Two Up</li> <li><input checked="" type="checkbox"/> Class 12 - Four Up</li> </ul>   |
| Mobile Phone Capability                 | <ul style="list-style-type: none"> <li><input type="checkbox"/> Class A - Mobile phones can be connected to both GPRS and GSM services simultaneously.</li> <li><input checked="" type="checkbox"/> Class B - Mobile phones can be attached to both GPRS and GSM services, using one service at a time.</li> <li><input type="checkbox"/> Class C - Mobile phones are attached to either GPRS or GSM voice service. You need to switch manually between services</li> </ul>   |
| DTM (Dual Transfer Mode)                | Not Supported   |

## 2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

|                 |   |
|-----------------|---|
| State of sample | Production unit   |
| Headset         | PY-1309102-05KD45/<br>DONGGUAN HETONG INDUSTRIAL CO.,LTD  |
| Batteries       | Battery1 :LIW38238/TMB<br>Battery2 :LIW38238/VEKEN  |
| H/W Version     | V1.00   |
| S/W Version     | L1402.6.01.01.MX06  |
| IMEI            | 863721030069527   |
| Notes           | As the information described above, there is only one model of the batteries manufactured by two different companies.<br>The relevant tests have been performed in order to verify in which combination case the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT exercised by the battery TMB. |

## 3. REFERENCE SPECIFICATION

| Specification  | Version       | Title   |
|----------------|---------------|---|
| Part 2.1093    | Nov. 14, 2016 | Radiofrequency radiation exposure evaluation: portable devices.   |
| IEEE Std 1528  | 2013          | IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques  |
| IEEE Std 1528a | 2005          | IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques Amendment 1: CAD File for Human Head Model (SAM Phantom) |
| KDB 447498 D01 | v06           | General RF Exposure Guidance  |
| KDB 648474 D04 | v01r03        | Handset SAR   |
| KDB 941225 D01 | v03r01        | 3G SAR Procedures   |
| KDB 941225 D06 | v02r01        | Hotspot Mode  |
| KDB 248227 D01 | v02r02        | SAR meas for 802 11 a b g   |
| KDB 865664 D01 | v01r04        | SAR Measurement 100 MHz to 6 GHz  |
| KDB 865664 D02 | v01r02        | RF Exposure Reporting   |
| KDB 941225 D05 | v02r05        | SAR for LTE Devices   |

## 4. TEST CONDITIONS

### 4.1 Picture to demonstrate the required liquid depth

The liquid depth in the used SAM phantoms



Liquid depth for SAR Measurement

### 4.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on lowest, middle and highest channels.

### 4.3 SAR Measurement Set-up

The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than  $\pm 0.02\text{mm}$ . Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit. A cell controller system contains the power supply, robot controller, teaches pendant (Joystick), and remote control, is used to drive the robot motors.

The PC consists of the Micron Pentium IV computer with Win7 system and SAR Measurement Software DASY5 Professional, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot.

A data acquisition electronic (DAE) circuit performs the signal amplification, signal

multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines.

The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection

The robot uses its own controller with a built in VME-bus computer.

#### 4.4 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528 - 2013.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

#### 4.5 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 - 2013 and FCC Supplement C to OET Bulletin 65. All tests were carried out using simulants whose dielectric parameters were within  $\pm 5\%$  of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was  $15.0 \pm 0.5$  cm measured from the ear reference point during system checking and device measurements.



### 4.5.1 Tissue Simulant Recipes

The following recipe(s) were used for Head and Body tissue stimulant(s):

#### 835MHz band

| Ingredient | Head (% by weight) | Body (% by weight) |
|------------|--------------------|--------------------|
| Water      | 41.45              | 52.50              |
| Sugar      | 56.00              | 45.0               |
| Nacl       | 1.45               | 1.40               |
| Cellulose  | 1.00               | 1.00               |
| Preventol  | 0.10               | 0.10               |

#### 1900MHz band

| Ingredient | Head (% by weight) | Body (% by weight) |
|------------|--------------------|--------------------|
| Water      | 44.45              | 70.17              |
| DGBE       | 55.24              | 29.44              |
| Nacl       | 0.31               | 0.39               |

#### 2450MHz band

| Ingredient | Head (% by weight) | Body (% by weight) |
|------------|--------------------|--------------------|
| Water      | 55.00              | 68.64              |
| DGBE       | 45.00              | 31.37              |
| Nacl       | 0.00               | 0.00               |

#### 5GHz band

| Ingredient                     | Head (% by weight) | Body (% by weight) |
|--------------------------------|--------------------|--------------------|
| Water                          | 65.52              | ---                |
| Triton X-100                   | 17.24              | ---                |
| Diethylenglycol monohexylether | 17.24              | ---                |

## 4.6 DESCRIPTION OF THE TEST PROCEDURE

### 4.6.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.



**Device holder supplied by SPEAG**

## 4.6.2 Test positions

### 4.6.2.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2013 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

### 4.6.2.2 Body Worn Configuration

The device was placed in the SPEAG holder below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance using a separate flat spacer that was removed before the start of the measurements. And the distance is 10mm. The device was oriented with its antenna facing the phantom since this orientation gives higher results.

## 4.6.3 Scan Procedure

First, area scans were used for determination of the field distribution and the approximate location of the local peak SAR values. The SAR distribution is scanned along the inside surface, at least for an area larger than the projection of the handset and antenna. The angle between the probe axis and the surface normal line is recommended but not required to be less than 30°. The SAR distribution is first measured on a 2-D coarse grid. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. It is a 15 mm × 15 mm measurement grid used when two staggered one-dimensional cubic splines are used to estimate the maximum SAR location. Next, a zoom scan, a minimum of 7 x 7x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

## 4.6.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within DASY5 are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation of Large Sets of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics. In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

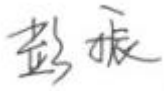


## 5 RESULT SUMMAR

The maximum reported SAR values for Head configuration and Body Worn configuration are given as follows. The device conforms to the requirements of the standard(s) when the maximum reported SAR value is less than or equal to the limit.

| Exposure Position | Frequency Band | 1g-SAR Reported Result (W/kg) | Highest 1g-SAR Reported Result (W/kg) |              | Limit (W/kg)/1g | Result |
|-------------------|----------------|-------------------------------|---------------------------------------|--------------|-----------------|--------|
| Head              | GSM 850        | 0.322                         | <b>0.509</b>                          |              |                 |        |
|                   | GSM 1900       | 0.269                         |                                       |              |                 |        |
|                   | WCDMA BAND 2   | 0.508                         |                                       |              |                 |        |
|                   | WCDMA BAND 4   | 0.509                         |                                       |              |                 |        |
|                   | WCDMA BAND 5   | 0.196                         |                                       |              |                 |        |
|                   | LTE Band 2     | 0.464                         |                                       |              |                 |        |
|                   | LTE Band 4     | 0.432                         |                                       |              |                 |        |
|                   | LTE Band 5     | 0.155                         |                                       |              |                 |        |
| Body              | LTE Band 7     | 0.073                         | <b>1.012</b>                          | <b>1.012</b> | 1.6             | PASS   |
|                   | GSM 850        | 0.953                         |                                       |              |                 |        |
|                   | GSM 1900       | 0.981                         |                                       |              |                 |        |
|                   | WCDMA BAND 2   | 0.781                         |                                       |              |                 |        |
|                   | WCDMA BAND 4   | 1.012                         |                                       |              |                 |        |
|                   | WCDMA BAND 5   | 0.468                         |                                       |              |                 |        |
|                   | LTE Band 2     | 0.934                         |                                       |              |                 |        |
|                   | LTE Band 4     | 0.527                         |                                       |              |                 |        |
| Hotspot           | LTE Band 5     | 0.310                         | <b>0.858</b>                          |              |                 |        |
|                   | LTE Band 7     | 0.850                         |                                       |              |                 |        |
|                   | GSM 850        | 0.858                         |                                       |              |                 |        |
|                   | GSM 1900       | 0.569                         |                                       |              |                 |        |
|                   | WCDMA BAND 2   | 0.738                         |                                       |              |                 |        |
|                   | WCDMA BAND 4   | 0.538                         |                                       |              |                 |        |
|                   | WCDMA BAND 5   | 0.159                         |                                       |              |                 |        |
|                   | LTE Band 2     | 0.396                         |                                       |              |                 |        |
| LTE Band 4        | 0.392          |                               |                                       |              |                 |        |
| LTE Band 5        | 0.352          |                               |                                       |              |                 |        |
| LTE Band 7        | 0.600          |                               |                                       |              |                 |        |

Simultaneous Transmission Summary

| Exposure Position | Frequency Band    | 1g-SAR Result(W/kg) | Highest 1g-SAR Result(W/kg) |       | Limit (W/kg)/1g | Result |
|-------------------|-------------------|---------------------|-----------------------------|-------|-----------------|--------|
| Head              | GSM & Wi-Fi       | 0.739               | 0.926                       | 1.429 | 1.6             | PASS   |
|                   | WCDMA & Wi-Fi     | 0.926               |                             |       |                 |        |
|                   | LTE& Wi-Fi        | 0.881               |                             |       |                 |        |
|                   | GSM & Bluetooth   | 0.355               |                             |       |                 |        |
|                   | WCDMA & Bluetooth | 0.542               |                             |       |                 |        |
|                   | LTE& Bluetooth    | 0.497               |                             |       |                 |        |
| Body              | GSM & Wi-Fi       | 1.398               | 1.429                       | 1.429 | 1.6             | PASS   |
|                   | WCDMA & Wi-Fi     | 1.429               |                             |       |                 |        |
|                   | LTE& Wi-Fi        | 1.351               |                             |       |                 |        |
|                   | GSM & Bluetooth   | 1.014               |                             |       |                 |        |
|                   | WCDMA & Bluetooth | 1.045               |                             |       |                 |        |
|                   | LTE& Bluetooth    | 0.967               |                             |       |                 |        |
| Hotspot           | GSM & Wi-Fi       | 1.275               | 1.275                       | 1.429 | 1.6             | PASS   |
|                   | WCDMA & Wi-Fi     | 1.155               |                             |       |                 |        |
|                   | LTE& Wi-Fi        | 1.017               |                             |       |                 |        |
|                   | GSM & Bluetooth   | 0.891               |                             |       |                 |        |
|                   | WCDMA & Bluetooth | 0.771               |                             |       |                 |        |
|                   | LTE& Bluetooth    | 0.633               |                             |       |                 |        |

|  |  |
|--|--|
| This Test Report Is Issued by:<br>Mr. Peng Zhen<br> | Checked by:<br>Ms. Liu Jia<br> |
| Tested by:<br>Mr. Li Bin<br>                        | Issued date:<br><br>20170512   |

## 6 TEST RESULT

### 6.1 Manufacturing Tolerance

#### GSM

| GSM 850         |             |             |             |
|-----------------|-------------|-------------|-------------|
| Channel         | Channel 128 | Channel 189 | Channel 251 |
| Tolerance (dBm) | 30.0~34.0   | 30.0~34.0   | 30.0~34.0   |
| GSM 1900        |             |             |             |
| Channel         | Channel 512 | Channel 661 | Channel 810 |
| Tolerance (dBm) | 27.0~31.0   | 27.0~31.0   | 27.0~31.0   |

| GSM 850 GPRS         |                 |           |           |           |
|----------------------|-----------------|-----------|-----------|-----------|
| Channel              |                 | 128       | 189       | 251       |
| 1 Txslot             | Tolerance (dBm) | 30.0~34.0 | 30.0~34.0 | 30.0~34.0 |
| 2 Txslot             | Tolerance (dBm) | 28.0~32.0 | 28.0~32.0 | 28.0~32.0 |
| 3 Txslot             | Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 |
| 4 Txslot             | Tolerance (dBm) | 25.0~29.0 | 25.0~29.0 | 25.0~29.0 |
| GSM 850 EGPRS (GMSK) |                 |           |           |           |
| Channel              |                 | 128       | 189       | 251       |
| 1 Txslot             | Tolerance (dBm) | 30.0~34.0 | 30.0~34.0 | 30.0~34.0 |
| 2 Txslot             | Tolerance (dBm) | 28.0~32.0 | 28.0~32.0 | 28.0~32.0 |
| 3 Txslot             | Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 |
| 4 Txslot             | Tolerance (dBm) | 25.0~29.0 | 25.0~29.0 | 25.0~29.0 |

| GSM 1900 GPRS         |                 |           |           |           |
|-----------------------|-----------------|-----------|-----------|-----------|
| Channel               |                 | 512       | 661       | 810       |
| 1 Txslot              | Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 |
| 2 Txslot              | Tolerance (dBm) | 26.0~30.0 | 26.0~30.0 | 26.0~30.0 |
| 3 Txslot              | Tolerance (dBm) | 24.0~28.0 | 24.0~28.0 | 24.0~28.0 |
| 4 Txslot              | Tolerance (dBm) | 22.0~26.0 | 22.0~26.0 | 22.0~26.0 |
| GSM 1900 EGPRS (GMSK) |                 |           |           |           |
| Channel               |                 | 512       | 661       | 810       |
| 1 Txslot              | Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 |
| 2 Txslot              | Tolerance (dBm) | 26.0~30.0 | 26.0~30.0 | 26.0~30.0 |
| 3 Txslot              | Tolerance (dBm) | 24.0~28.0 | 24.0~28.0 | 24.0~28.0 |
| 4 Txslot              | Tolerance (dBm) | 22.0~26.0 | 22.0~26.0 | 22.0~26.0 |

### WCDMA

| WCDMA Band2     |           |           |           |
|-----------------|-----------|-----------|-----------|
| Channel         | 9262      | 9400      | 9538      |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| WCDMA Band4     |           |           |           |
| Channel         | 1312      | 1412      | 1513      |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| WCDMA Band5     |           |           |           |
| Channel         | 4132      | 4183      | 4233      |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |

| HSDPA Band2 |                 |           |           |           |
|-------------|-----------------|-----------|-----------|-----------|
| Channel     |                 | 9262      | 9400      | 9538      |
| Sub test 1  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 2  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 3  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 4  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| HSDPA Band4 |                 |           |           |           |
| Channel     |                 | 1312      | 1412      | 1513      |
| Sub test 1  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 2  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 3  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 4  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| HSDPA Band5 |                 |           |           |           |
| Channel     |                 | 4132      | 4183      | 4233      |
| Sub test 1  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 2  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 3  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 4  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |

| HSUPA Band2 |                 |           |           |           |
|-------------|-----------------|-----------|-----------|-----------|
| Channel     |                 | 9262      | 9400      | 9538      |
| Sub test 1  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 2  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 3  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 4  | Tolerance (dBm) | 17.0~21.0 | 17.0~21.0 | 17.0~21.0 |
| Sub test 5  | Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |

| HSUPA Band4 |                 |           |           |           |
|-------------|-----------------|-----------|-----------|-----------|
| Channel     |                 | 1312      | 1412      | 1513      |
| Sub test 1  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 2  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 3  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 4  | Tolerance (dBm) | 17.0~21.0 | 17.0~21.0 | 17.0~21.0 |
| Sub test 5  | Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| HSUPA Band5 |                 |           |           |           |
| Channel     |                 | 4132      | 4183      | 4233      |
| Sub test 1  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 2  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 3  | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 |
| Sub test 4  | Tolerance (dBm) | 17.0~21.0 | 17.0~21.0 | 17.0~21.0 |
| Sub test 5  | Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |

**Bluetooth**

| GFSK            |           |           |           |
|-----------------|-----------|-----------|-----------|
| Channel         | 0         | 39        | 78        |
| Tolerance (dBm) | -6.0~-2.0 | -6.0~-2.0 | -6.0~-2.0 |
| π/4DQPSK        |           |           |           |
| Channel         | 0         | 39        | 78        |
| Tolerance (dBm) | -6.0~-2.0 | -6.0~-2.0 | -6.0~-2.0 |
| 8DPSK           |           |           |           |
| Channel         | 0         | 39        | 78        |
| Tolerance (dBm) | -6.0~-2.0 | -6.0~-2.0 | -6.0~-2.0 |

**Bluetooth (BLE)**

| GFSK            |          |          |          |
|-----------------|----------|----------|----------|
| Channel         | 0        | 39       | 78       |
| Tolerance (dBm) | -2.0~2.0 | -2.0~2.0 | -2.0~2.0 |

**Wi-Fi(2.4GHz)**

| 802.11b         |          |          |          |
|-----------------|----------|----------|----------|
| Channel         | 1        | 6        | 11       |
| Tolerance (dBm) | 9.0~13.0 | 9.0~13.0 | 9.0~13.0 |
| 802.11g         |          |          |          |
| Channel         | 1        | 6        | 11       |
| Tolerance (dBm) | 8.0~12.0 | 8.0~12.0 | 8.0~12.0 |
| 802.11n HT20    |          |          |          |
| Channel         | 1        | 6        | 11       |
| Tolerance (dBm) | 8.0~12.0 | 8.0~12.0 | 8.0~12.0 |

## LTE

### Band 2

| 20BW 100%RB     |               |               |               |
|-----------------|---------------|---------------|---------------|
| Channel         | Channel 18700 | Channel 18900 | Channel 19100 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 20BW 50%RB      |               |               |               |
| Channel         | Channel 18700 | Channel 18900 | Channel 19100 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 20BW 1RB        |               |               |               |
| Channel         | Channel 18700 | Channel 18900 | Channel 19100 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 100%RB     |               |               |               |
| Channel         | Channel 18675 | Channel 18900 | Channel 19125 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 50%RB      |               |               |               |
| Channel         | Channel 18675 | Channel 18900 | Channel 19125 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 1RB        |               |               |               |
| Channel         | Channel 18675 | Channel 18900 | Channel 19125 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 100%RB     |               |               |               |
| Channel         | Channel 18650 | Channel 18900 | Channel 19150 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 50%RB      |               |               |               |
| Channel         | Channel 18650 | Channel 18900 | Channel 19150 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 1RB        |               |               |               |
| Channel         | Channel 18650 | Channel 18900 | Channel 19150 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 100%RB      |               |               |               |
| Channel         | Channel 18625 | Channel 18900 | Channel 19175 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 50%RB       |               |               |               |
| Channel         | Channel 18625 | Channel 18900 | Channel 19175 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 1RB         |               |               |               |
| Channel         | Channel 18625 | Channel 18900 | Channel 19175 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 100%RB      |               |               |               |
| Channel         | Channel 18615 | Channel 18900 | Channel 19185 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 50%RB       |               |               |               |
| Channel         | Channel 18615 | Channel 18900 | Channel 19185 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 1RB         |               |               |               |
| Channel         | Channel 18615 | Channel 18900 | Channel 19185 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 100%RB    |               |               |               |
| Channel         | Channel 18607 | Channel 18900 | Channel 19193 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 50%RB     |               |               |               |
| Channel         | Channel 18607 | Channel 18900 | Channel 19193 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 1RB       |               |               |               |
| Channel         | Channel 18607 | Channel 18900 | Channel 19193 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |



Band 4

| 20BW 100%RB     |               |               |               |
|-----------------|---------------|---------------|---------------|
| Channel         | Channel 20050 | Channel 20175 | Channel 20300 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 20BW 50%RB      |               |               |               |
| Channel         | Channel 20050 | Channel 20175 | Channel 20300 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 20BW 1RB        |               |               |               |
| Channel         | Channel 20050 | Channel 20175 | Channel 20300 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 100%RB     |               |               |               |
| Channel         | Channel 20250 | Channel 20175 | Channel 20325 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 50%RB      |               |               |               |
| Channel         | Channel 20250 | Channel 20175 | Channel 20325 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 1RB        |               |               |               |
| Channel         | Channel 20250 | Channel 20175 | Channel 20325 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 100%RB     |               |               |               |
| Channel         | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 50%RB      |               |               |               |
| Channel         | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 1RB        |               |               |               |
| Channel         | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 100%RB      |               |               |               |
| Channel         | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 50%RB       |               |               |               |
| Channel         | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 1RB         |               |               |               |
| Channel         | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 100%RB      |               |               |               |
| Channel         | Channel 19965 | Channel 20175 | Channel 20385 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 50%RB       |               |               |               |
| Channel         | Channel 19965 | Channel 20175 | Channel 20385 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 1RB         |               |               |               |
| Channel         | Channel 19965 | Channel 20175 | Channel 20385 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 100%RB    |               |               |               |
| Channel         | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 50%RB     |               |               |               |
| Channel         | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 1RB       |               |               |               |
| Channel         | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |

Band 5

| 10BW 100%RB     |               |               |               |
|-----------------|---------------|---------------|---------------|
| Channel         | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 50%RB      |               |               |               |
| Channel         | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 1RB        |               |               |               |
| Channel         | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 100%RB      |               |               |               |
| Channel         | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 50%RB       |               |               |               |
| Channel         | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 1RB         |               |               |               |
| Channel         | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 100%RB      |               |               |               |
| Channel         | Channel 19965 | Channel 20175 | Channel 20385 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 50%RB       |               |               |               |
| Channel         | Channel 19965 | Channel 20175 | Channel 20385 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 3BW 1RB         |               |               |               |
| Channel         | Channel 19965 | Channel 20175 | Channel 20385 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 100%RB    |               |               |               |
| Channel         | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 50%RB     |               |               |               |
| Channel         | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 1.4BW 1RB       |               |               |               |
| Channel         | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |

Band7

| 20BW 100%RB     |               |               |               |
|-----------------|---------------|---------------|---------------|
| Channel         | Channel 20850 | Channel 21100 | Channel 21350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 20BW 50%RB      |               |               |               |
| Channel         | Channel 20850 | Channel 21100 | Channel 21350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 20BW 1RB        |               |               |               |
| Channel         | Channel 20850 | Channel 21100 | Channel 21350 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 100%RB     |               |               |               |
| Channel         | Channel 20825 | Channel 21100 | Channel 21375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 50%RB      |               |               |               |
| Channel         | Channel 20825 | Channel 21100 | Channel 21375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 15BW 1RB        |               |               |               |
| Channel         | Channel 20825 | Channel 21100 | Channel 21375 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 100%RB     |               |               |               |
| Channel         | Channel 20800 | Channel 21100 | Channel 21400 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 50%RB      |               |               |               |
| Channel         | Channel 20800 | Channel 21100 | Channel 21400 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 10BW 1RB        |               |               |               |
| Channel         | Channel 20800 | Channel 21100 | Channel 21400 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 100%RB      |               |               |               |
| Channel         | Channel 20775 | Channel 21100 | Channel 21425 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 50%RB       |               |               |               |
| Channel         | Channel 20775 | Channel 21100 | Channel 21425 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |
| 5BW 1RB         |               |               |               |
| Channel         | Channel 20775 | Channel 21100 | Channel 21425 |
| Tolerance (dBm) | 19.0~23.0     | 19.0~23.0     | 19.0~23.0     |

## 6.2 GSM Measurement result

### GSM Measured Power

| Mode                | GSM850 |       |       | GSM1900 |        |        |
|---------------------|--------|-------|-------|---------|--------|--------|
| Channel             | 128    | 189   | 251   | 512     | 661    | 810    |
| Frequency(MHz)      | 824.2  | 836.4 | 848.8 | 1850.2  | 1880.0 | 1909.8 |
| Measured Power(dBm) | 32.91  | 32.94 | 32.92 | 29.97   | 29.98  | 29.91  |

### GPRS Measured Power

| Mode                       | GPRS850 |       |       | GPRS1900 |        |        |
|----------------------------|---------|-------|-------|----------|--------|--------|
| Channel                    | 128     | 189   | 251   | 512      | 661    | 810    |
| Frequency(MHz)             | 824.2   | 836.4 | 848.8 | 1850.2   | 1880.0 | 1909.8 |
| 4Downlink1uplinkPower(dBm) | 32.91   | 32.94 | 32.92 | 29.97    | 29.98  | 29.91  |
| 3Downlink2uplinkPower(dBm) | 31.11   | 30.97 | 30.92 | 27.44    | 27.46  | 27.53  |
| 2Downlink3uplinkPower(dBm) | 29.28   | 29.15 | 29.10 | 26.12    | 26.09  | 26.12  |
| 1Downlink4uplinkPower(dBm) | 28.30   | 28.17 | 28.11 | 25.00    | 25.01  | 24.99  |

### GPRS Averaged Power

| Mode                       | GPRS850 |       |       | GPRS1900 |        |        |
|----------------------------|---------|-------|-------|----------|--------|--------|
| Channel                    | 128     | 189   | 251   | 512      | 661    | 810    |
| Frequency(MHz)             | 824.2   | 836.4 | 848.8 | 1850.2   | 1880.0 | 1909.8 |
| 4Downlink1uplinkPower(dBm) | 23.88   | 23.91 | 23.89 | 20.94    | 20.95  | 20.88  |
| 3Downlink2uplinkPower(dBm) | 25.09   | 24.95 | 24.90 | 21.42    | 21.44  | 21.51  |
| 2Downlink3uplinkPower(dBm) | 25.02   | 24.89 | 24.84 | 21.86    | 21.83  | 21.86  |
| 1Downlink4uplinkPower(dBm) | 25.29   | 25.16 | 25.10 | 21.99    | 22.00  | 21.98  |

### Division Factors (for Measured Power and Averaged Power):

To average the power, the division factor is as follows:

1TX-slot (4Downlink1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink)= 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink)= 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots (1Downlink4uplink) for GPRS.

### EGPRS Measured Power

| Mode                       | EGPRS850 (GMSK) |       |       | EGPRS1900 (GMSK) |        |        |
|----------------------------|-----------------|-------|-------|------------------|--------|--------|
|                            | EGPRS850 (8PSK) |       |       | EGPRS1900 (8PSK) |        |        |
| Channel                    | 128             | 189   | 251   | 512              | 661    | 810    |
| Frequency(MHz)             | 824.2           | 836.4 | 848.8 | 1850.2           | 1880.0 | 1909.8 |
| 4Downlink1uplinkPower(dBm) | 32.91           | 32.94 | 32.92 | 29.97            | 29.98  | 29.91  |
|                            | 26.00           | 25.92 | 25.83 | 25.78            | 25.53  | 25.37  |
| 3Downlink2uplinkPower(dBm) | 31.11           | 30.97 | 30.92 | 27.44            | 27.46  | 27.53  |
|                            | 25.31           | 25.82 | 25.56 | 25.41            | 25.12  | 25.19  |
| 2Downlink3uplinkPower(dBm) | 29.28           | 29.15 | 29.10 | 26.12            | 26.09  | 26.12  |
|                            | 23.87           | 24.05 | 24.10 | 23.60            | 23.23  | 22.97  |
| 1Downlink4uplinkPower(dBm) | 28.30           | 28.17 | 28.11 | 25.00            | 25.01  | 24.99  |
|                            | 21.68           | 21.63 | 21.66 | 20.65            | 20.48  | 20.80  |

### EGPRS Averaged Power

| Mode                       | EGPRS850 (GMSK) |       |       | EGPRS1900 (GMSK) |        |        |
|----------------------------|-----------------|-------|-------|------------------|--------|--------|
|                            | EGPRS850 (8PSK) |       |       | EGPRS1900 (8PSK) |        |        |
| Channel                    | 128             | 189   | 251   | 512              | 661    | 810    |
| Frequency(MHz)             | 824.2           | 836.4 | 848.8 | 1850.2           | 1880.0 | 1909.8 |
| 4Downlink1uplinkPower(dBm) | 23.88           | 23.91 | 23.89 | 20.94            | 20.95  | 20.88  |
|                            | 16.97           | 16.89 | 16.80 | 16.75            | 16.50  | 16.34  |
| 3Downlink2uplinkPower(dBm) | 25.09           | 24.95 | 24.90 | 21.42            | 21.44  | 21.51  |
|                            | 19.29           | 19.80 | 19.54 | 19.39            | 19.10  | 19.17  |
| 2Downlink3uplinkPower(dBm) | 25.02           | 24.89 | 24.84 | 21.86            | 21.83  | 21.86  |
|                            | 19.61           | 19.79 | 19.84 | 19.34            | 18.97  | 18.71  |
| 1Downlink4uplinkPower(dBm) | 25.29           | 25.16 | 25.10 | 21.99            | 22.00  | 21.98  |
|                            | 18.67           | 18.62 | 18.65 | 17.64            | 17.47  | 17.79  |

### Division Factors (for Measured Power and Averaged Power):

To average the power, the division factor is as follows:

1TX-slot (4Downlink1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink) = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink) = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots (1Downlink4uplink) for EGPRS (GMSK).

### 6.3 WCDMA Measurement result

The following procedures are according to FCC KDB Publication 941225 D01.  
Release 99

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

| Mode                   | Subtest                 | Rel99        |
|------------------------|-------------------------|--------------|
| WCDMA General Settings | Loopback Mode           | Test Mode 1  |
|                        | Rel99 RMC               | 12.2kbps RMC |
|                        | Power Control Algorithm | Algorithm2   |
|                        | $\beta_c/\beta_d$       | 8/15         |

#### Measured Results

| Mode                              | Band2  |       |        | Band4  |        |        |
|-----------------------------------|--------|-------|--------|--------|--------|--------|
| Channel                           | 9262   | 9400  | 9538   | 1312   | 1412   | 1513   |
| Frequency(MHz)                    | 1852.4 | 1880  | 1907.6 | 1712.4 | 1732.4 | 1752.6 |
| RB test mode1+64kRMC(dBm)         | 22.55  | 22.52 | 22.55  | 22.31  | 22.28  | 22.31  |
| RB test mode1+12.2kRMC(dBm)       | 22.62  | 22.65 | 22.61  | 22.38  | 22.41  | 22.37  |
| RB test mode1+144kRMC(dBm)        | 22.57  | 22.56 | 22.58  | 22.33  | 22.32  | 22.34  |
| RB test mode1+384kRMC(dBm)        | 22.50  | 22.54 | 22.58  | 22.26  | 22.30  | 22.34  |
| AMR Voice test mode+12.2kRMC(dBm) | 22.52  | 22.56 | 22.56  | 22.28  | 22.32  | 22.32  |
| Mode                              | Band5  |       |        |        |        |        |
| Channel                           | 4132   | 4183  | 4233   |        |        |        |
| Frequency(MHz)                    | 826.4  | 836.6 | 846.6  |        |        |        |
| RB test mode1+64kRMC(dBm)         | 22.39  | 22.45 | 22.52  |        |        |        |
| RB test mode1+12.2kRMC(dBm)       | 22.48  | 22.56 | 22.55  |        |        |        |
| RB test mode1+144kRMC(dBm)        | 22.41  | 22.36 | 22.37  |        |        |        |
| RB test mode1+384kRMC(dBm)        | 22.38  | 22.38 | 22.38  |        |        |        |
| AMR Voice test mode+12.2kRMC(dBm) | 22.37  | 22.34 | 22.33  |        |        |        |

## HSDPA

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121.

| Sub-test | $\beta_c$            | $\beta_d$            | $\beta_d$<br>(SF) | $\beta_c/\beta_d$    | $\beta_{hs}^{(1)}$ | CM(dB) <sup>(2)</sup> |
|----------|----------------------|----------------------|-------------------|----------------------|--------------------|-----------------------|
| 1        | 2/15                 | 15/15                | 64                | 2/15                 | 4/15               | 0.0                   |
| 2        | 12/15 <sup>(3)</sup> | 15/15 <sup>(3)</sup> | 64                | 12/15 <sup>(3)</sup> | 24/15              | 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                   |

Note1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ .

Note2: CM=1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ .

Note3: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

## Measured Results

| Mode           | HSDPA Band 2 |       |        | HSDPA Band 4 |        |        |
|----------------|--------------|-------|--------|--------------|--------|--------|
| Channel        | 9262         | 9400  | 9538   | 1312         | 1412   | 1513   |
| Frequency(MHz) | 1852.4       | 1880  | 1907.6 | 1712.4       | 1732.4 | 1752.6 |
| sub-test1(dBm) | 21.10        | 21.10 | 21.20  | 20.80        | 20.80  | 20.90  |
| sub-test2(dBm) | 21.10        | 21.10 | 21.20  | 20.80        | 20.80  | 20.90  |
| sub-test3(dBm) | 20.60        | 20.60 | 20.80  | 20.30        | 20.30  | 20.50  |
| sub-test4(dBm) | 20.60        | 20.60 | 20.70  | 20.30        | 20.30  | 20.40  |
| Mode           | HSDPA Band 5 |       |        |              |        |        |
| Channel        | 4132         | 4183  | 4233   |              |        |        |
| Frequency(MHz) | 826.4        | 836.6 | 846.6  |              |        |        |
| sub-test1(dBm) | 20.70        | 20.80 | 20.90  |              |        |        |
| sub-test2(dBm) | 20.80        | 20.80 | 20.90  |              |        |        |
| sub-test3(dBm) | 20.20        | 20.40 | 20.40  |              |        |        |
| sub-test4(dBm) | 20.30        | 20.40 | 20.40  |              |        |        |

## HSPA (HSDPA & HSUPA)

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121.

| Sub-test | $\beta_c$            | $\beta_d$            | $\beta_d$<br>(SF) | $\beta_c/\beta_d$    | $\beta_{hs}^{(1)}$ | $\beta_{ec}$ | $\beta_{ed}$                               | $\beta_{ed}$<br>(SF) | $\beta_{ed}$<br>(codes) | CM <sup>(2)</sup><br>(dB) | MPR<br>(dB) | AG <sup>(4)</sup><br>Index | E-TFCI |
|----------|----------------------|----------------------|-------------------|----------------------|--------------------|--------------|--|----------------------|-------------------------|---------------------------|-------------|----------------------------|--------|
| 1        | 11/15 <sup>(3)</sup> | 15/15 <sup>(3)</sup> | 64                | 11/15 <sup>(3)</sup> | 22/15              | 209/225      | 1039/225                                   | 4                    | 1                       | 1.0                       | 2.0         | 20                         | 75     |
| 2        | 6/15                 | 15/15                | 64                | 6/15                 | 12/15              | 12/15        | 94/75                                      | 4                    | 1                       | 3.0                       | 2.0         | 12                         | 67     |
| 3        | 15/15                | 9/15                 | 64                | 15/9                 | 30/15              | 30/15        | $\beta_{ed1}:47/15$<br>$\beta_{ed2}:47/15$ | 4                    | 2                       | 2.0                       | 2.0         | 15                         | 92     |
| 4        | 2/15                 | 15/15                | 64                | 2/15                 | 4/15               | 2/15         | 56/75                                      | 4                    | 1                       | 3.0                       | 2.0         | 17                         | 71     |
| 5        | 15/15 <sup>(4)</sup> | 15/15 <sup>(4)</sup> | 64                | 15/15 <sup>(4)</sup> | 30/15              | 24/15        | 134/15                                     | 4                    | 1                       | 1.0                       | 2.0         | 21                         | 81     |

Note1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ .

Note2: CM=1 for  $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to  $\beta_c=10/15$  and  $\beta_d=15/15$ .

Note4: For subtest 5 the  $\beta_c/\beta_d$  ratio of 15/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to  $\beta_c=14/15$  and  $\beta_d=15/15$ .

NOTE5: Testing UE using E-DPDCH Physical layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

NOTE6:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

## Measured Results

| Mode           | HSUPA Band 2 |       |        | HSUPA Band 4 |        |        |
|----------------|--------------|-------|--------|--------------|--------|--------|
| Channel        | 9262         | 9400  | 9538   | 1312         | 1412   | 1513   |
| Frequency(MHz) | 1852.4       | 1880  | 1907.6 | 1712.4       | 1732.4 | 1752.6 |
| sub-test1(dBm) | 19.40        | 19.40 | 19.40  | 19.10        | 19.10  | 19.10  |
| sub-test2(dBm) | 19.30        | 19.30 | 19.40  | 19.00        | 19.00  | 19.10  |
| sub-test3(dBm) | 19.40        | 19.40 | 19.40  | 19.10        | 19.10  | 19.10  |
| sub-test4(dBm) | 18.80        | 18.80 | 18.90  | 18.50        | 18.50  | 18.60  |
| sub-test5(dBm) | 21.30        | 21.40 | 21.30  | 21.00        | 21.10  | 21.00  |
| Mode           | HSUPA Band 5 |       |        |              |        |        |
| Channel        | 4132         | 4183  | 4233   |              |        |        |
| Frequency(MHz) | 826.4        | 836.6 | 846.6  |              |        |        |
| sub-test1(dBm) | 19.00        | 19.10 | 18.50  |              |        |        |
| sub-test2(dBm) | 19.00        | 19.10 | 18.50  |              |        |        |
| sub-test3(dBm) | 19.00        | 19.10 | 18.60  |              |        |        |
| sub-test4(dBm) | 18.50        | 18.50 | 18.10  |              |        |        |
| sub-test5(dBm) | 20.90        | 20.50 | 21.00  |              |        |        |

UMTS SAR was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01.

HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.



## 6.4 LTE Measurement result

### Band 2

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Low Range         | 1.4             | 18607 | 1850.7                   | QPSK       | 1       | Low       | 21.37              |
|                   |                 |       |                          |            |         | Mid       | 21.49              |
|                   |                 |       |                          |            |         | High      | 21.32              |
|                   |                 |       |                          |            | 50%     | Low       | 21.31              |
|                   |                 |       |                          |            |         | Mid       | 21.02              |
|                   |                 |       |                          |            |         | High      | 21.22              |
|                   |                 |       |                          | 100%       | ---     | 21.31     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.21              |
|                   |                 |       |                          |            |         | Mid       | 21.64              |
|                   | High            | 21.19 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.17                    |            |         |           |                    |
|                   |                 | Mid   | 21.90                    |            |         |           |                    |
|                   |                 | High  | 21.07                    |            |         |           |                    |
|                   | 100%            | ---   | 21.31                    |            |         |           |                    |
|                   | 3               | 18615 | 1851.5                   | QPSK       | 1       | Low       | 21.09              |
|                   |                 |       |                          |            |         | Mid       | 21.74              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 21.03              |
| Mid               |                 |       |                          |            |         | 21.10     |                    |
| High              |                 |       |                          |            |         | 21.08     |                    |
| 100%              |                 |       |                          | ---        | 21.04   |           |                    |
| 16QAM             |                 |       |                          | 1          | Low     | 21.95     |                    |
|                   |                 |       |                          |            | Mid     | 21.73     |                    |
|                   | High            | 21.92 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.06                    |            |         |           |                    |
|                   |                 | Mid   | 21.12                    |            |         |           |                    |
|                   |                 | High  | 21.08                    |            |         |           |                    |
| 100%              | ---             | 21.11 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |       |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|-------|
| Low Range         | 5               | 18625 | 1852.5                   | QPSK       | 1       | Low       | 21.14              |       |
|                   |                 |       |                          |            |         | Mid       | 21.75              |       |
|                   |                 |       |                          |            |         | High      | 21.04              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.07              |       |
|                   |                 |       |                          |            |         | Mid       | 21.03              |       |
|                   |                 |       |                          |            |         | High      | 21.09              |       |
|                   |                 |       |                          | 100%       | ---     | 21.99     |                    |       |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.99              |       |
|                   |                 |       |                          |            |         | Mid       | 21.75              |       |
|                   | High            | 21.84 |                          |            |         |           |                    |       |
|                   | 50%             | Low   | 21.05                    |            |         |           |                    |       |
|                   |                 | Mid   | 21.00                    |            |         |           |                    |       |
|                   |                 | High  | 21.03                    |            |         |           |                    |       |
|                   | 100%            | ---   | 21.01                    |            |         |           |                    |       |
|                   | 10              | 18650 | 1855                     | QPSK       | 1       | Low       | 21.24              |       |
|                   |                 |       |                          |            |         | Mid       | 21.25              |       |
|                   |                 |       |                          |            |         | High      | 21.16              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.06              |       |
|                   |                 |       |                          |            |         | Mid       | 21.97              |       |
|                   |                 |       |                          |            |         | High      | 21.03              |       |
|                   |                 |       |                          |            | 100%    | ---       | 21.99              |       |
|                   |                 |       |                          |            | 16QAM   | 1         | Low                | 21.06 |
|                   |                 |       |                          |            |         |           | Mid                | 21.31 |
|                   |                 |       |                          | High       |         |           | 21.93              |       |
| 50%               |                 |       |                          | Low        |         | 21.09     |                    |       |
|                   |                 |       |                          | Mid        |         | 21.00     |                    |       |
|                   |                 |       |                          | High       |         | 21.03     |                    |       |
| 100%              |                 |       |                          | ---        | 20.96   |           |                    |       |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Low Range         | 15              | 18675 | 1857.5                   | QPSK       | 1       | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.95              |
|                   |                 |       |                          |            |         | High      | 21.18              |
|                   |                 |       |                          |            | 50%     | Low       | 21.02              |
|                   |                 |       |                          |            |         | Mid       | 21.98              |
|                   |                 |       |                          |            |         | High      | 21.96              |
|                   |                 |       |                          | 100%       | ---     | 21.04     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.10              |
|                   |                 |       |                          |            |         | Mid       | 21.05              |
|                   |                 |       |                          |            |         | High      | 21.98              |
|                   |                 |       |                          |            | 50%     | Low       | 21.01              |
|                   |                 |       |                          |            |         | Mid       | 20.97              |
|                   | High            | 20.96 |                          |            |         |           |                    |
|                   | 100%            | ---   | 21.00                    |            |         |           |                    |
|                   | 20              | 18700 | 1860                     | QPSK       | 1       | Low       | 22.50              |
|                   |                 |       |                          |            |         | Mid       | 22.21              |
|                   |                 |       |                          |            |         | High      | 22.17              |
|                   |                 |       |                          |            | 50%     | Low       | 22.20              |
|                   |                 |       |                          |            |         | Mid       | 21.96              |
|                   |                 |       |                          |            |         | High      | 21.98              |
|                   |                 |       |                          | 100%       | ---     | 21.99     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.12              |
|                   |                 |       |                          |            |         | Mid       | 21.32              |
|                   |                 |       |                          |            |         | High      | 21.94              |
| 50%               |                 |       |                          |            | Low     | 20.97     |                    |
|                   |                 |       |                          |            | Mid     | 20.95     |                    |
|                   | High            | 20.93 |                          |            |         |           |                    |
| 100%              | ---             | 21.01 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 1.4             | 18900 | 1880                     | QPSK       | 1       | Low       | 21.02              |
|                   |                 |       |                          |            |         | Mid       | 21.11              |
|                   |                 |       |                          |            |         | High      | 21.03              |
|                   |                 |       |                          |            | 50%     | Low       | 21.80              |
|                   |                 |       |                          |            |         | Mid       | 21.70              |
|                   |                 |       |                          |            |         | High      | 21.88              |
|                   |                 |       |                          | 100%       | ---     | 21.92     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.89              |
|                   |                 |       |                          |            |         | Mid       | 21.28              |
|                   |                 |       |                          |            |         | High      | 21.91              |
|                   |                 |       |                          |            | 50%     | Low       | 21.89              |
|                   |                 |       |                          |            |         | Mid       | 21.54              |
|                   | High            | 21.78 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.97                    |            |         |           |                    |
|                   | 3               | 18900 | 1880                     | QPSK       | 1       | Low       | 21.06              |
|                   |                 |       |                          |            |         | Mid       | 21.50              |
|                   |                 |       |                          |            |         | High      | 21.97              |
|                   |                 |       |                          |            | 50%     | Low       | 21.93              |
|                   |                 |       |                          |            |         | Mid       | 21.87              |
|                   |                 |       |                          |            |         | High      | 21.88              |
|                   |                 |       |                          | 100%       | ---     | 21.88     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.90              |
|                   |                 |       |                          |            |         | Mid       | 21.76              |
|                   |                 |       |                          |            |         | High      | 21.87              |
| 50%               |                 |       |                          |            | Low     | 20.98     |                    |
|                   |                 |       |                          |            | Mid     | 21.02     |                    |
|                   | High            | 21.03 |                          |            |         |           |                    |
| 100%              | ---             | 20.96 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 5               | 18900 | 1880                     | QPSK       | 1       | Low       | 21.06              |
|                   |                 |       |                          |            |         | Mid       | 21.60              |
|                   |                 |       |                          |            |         | High      | 21.97              |
|                   |                 |       |                          |            | 50%     | Low       | 21.93              |
|                   |                 |       |                          |            |         | Mid       | 21.87              |
|                   |                 |       |                          |            |         | High      | 21.88              |
|                   |                 |       |                          | 100%       | ---     | 21.80     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.94              |
|                   |                 |       |                          |            |         | Mid       | 21.73              |
|                   |                 |       |                          |            |         | High      | 21.85              |
|                   |                 |       |                          |            | 50%     | Low       | 20.91              |
|                   |                 |       |                          |            |         | Mid       | 20.87              |
|                   | High            | 20.89 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.92                    |            |         |           |                    |
|                   | 10              | 18900 | 1880                     | QPSK       | 1       | Low       | 21.15              |
|                   |                 |       |                          |            |         | Mid       | 21.18              |
|                   |                 |       |                          |            |         | High      | 21.07              |
|                   |                 |       |                          |            | 50%     | Low       | 21.88              |
|                   |                 |       |                          |            |         | Mid       | 21.86              |
|                   |                 |       |                          |            |         | High      | 21.89              |
|                   |                 |       |                          | 100%       | ---     | 21.92     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.97              |
|                   |                 |       |                          |            |         | Mid       | 21.34              |
|                   |                 |       |                          |            |         | High      | 21.91              |
| 50%               |                 |       |                          |            | Low     | 21.00     |                    |
|                   |                 |       |                          |            | Mid     | 20.95     |                    |
|                   | High            | 20.97 |                          |            |         |           |                    |
| 100%              | ---             | 20.95 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 15              | 18900 | 1880                     | QPSK       | 1       | Low       | 21.17              |
|                   |                 |       |                          |            |         | Mid       | 21.85              |
|                   |                 |       |                          |            |         | High      | 21.06              |
|                   |                 |       |                          |            | 50%     | Low       | 21.97              |
|                   |                 |       |                          |            |         | Mid       | 21.93              |
|                   |                 |       |                          |            |         | High      | 21.92              |
|                   |                 |       |                          | 100%       | ---     | 21.92     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.99              |
|                   |                 |       |                          |            |         | Mid       | 21.01              |
|                   | High            | 21.89 |                          |            |         |           |                    |
|                   | 50%             | Low   | 20.97                    |            |         |           |                    |
|                   |                 | Mid   | 20.95                    |            |         |           |                    |
|                   |                 | High  | 20.96                    |            |         |           |                    |
|                   | 100%            | ---   | 20.96                    |            |         |           |                    |
|                   | 20              | 18900 | 1880                     | QPSK       | 1       | Low       | 22.80              |
|                   |                 |       |                          |            |         | Mid       | 22.07              |
|                   |                 |       |                          |            |         | High      | 22.04              |
|                   |                 |       |                          |            | 50%     | Low       | 22.50              |
| Mid               |                 |       |                          |            |         | 21.87     |                    |
| High              |                 |       |                          |            |         | 21.88     |                    |
| 100%              |                 |       |                          | ---        | 21.88   |           |                    |
| 16QAM             |                 |       |                          | 1          | Low     | 21.99     |                    |
|                   |                 |       |                          |            | Mid     | 21.28     |                    |
|                   | High            | 21.84 |                          |            |         |           |                    |
|                   | 50%             | Low   | 20.92                    |            |         |           |                    |
|                   |                 | Mid   | 20.91                    |            |         |           |                    |
|                   |                 | High  | 20.88                    |            |         |           |                    |
| 100%              | ---             | 20.95 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 5               | 19175 | 1907.5                   | QPSK       | 1       | Low       | 21.87              |
|                   |                 |       |                          |            |         | Mid       | 21.49              |
|                   |                 |       |                          |            |         | High      | 21.79              |
|                   |                 |       |                          |            | 50%     | Low       | 21.81              |
|                   |                 |       |                          |            |         | Mid       | 21.73              |
|                   |                 |       |                          |            |         | High      | 21.79              |
|                   |                 |       |                          | 100%       | ---     | 21.70     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.64              |
|                   |                 |       |                          |            |         | Mid       | 21.50              |
| High              | 21.63           |       |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 1.4             | 19193 | 1909.3                   | QPSK       | 1       | Low       | 21.83              |
|                   |                 |       |                          |            |         | Mid       | 21.93              |
|                   |                 |       |                          |            |         | High      | 21.83              |
|                   |                 |       |                          |            | 50%     | Low       | 21.76              |
|                   |                 |       |                          |            |         | Mid       | 21.50              |
|                   |                 |       |                          |            |         | High      | 21.69              |
|                   |                 |       |                          | 100%       | ---     | 21.81     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.67              |
|                   |                 |       |                          |            |         | Mid       | 21.09              |
|                   | High            | 21.69 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.63                    |            |         |           |                    |
|                   |                 | Mid   | 21.37                    |            |         |           |                    |
|                   |                 | High  | 21.53                    |            |         |           |                    |
|                   | 100%            | ---   | 20.82                    |            |         |           |                    |
|                   | 3               | 19185 | 1908.5                   | QPSK       | 1       | Low       | 21.72              |
|                   |                 |       |                          |            |         | Mid       | 21.47              |
|                   |                 |       |                          |            |         | High      | 21.78              |
|                   |                 |       |                          |            | 50%     | Low       | 21.72              |
| Mid               |                 |       |                          |            |         | 21.79     |                    |
| High              |                 |       |                          |            |         | 21.68     |                    |
| 100%              |                 |       |                          | ---        | 21.71   |           |                    |
| 16QAM             |                 |       |                          | 1          | Low     | 21.59     |                    |
|                   |                 |       |                          |            | Mid     | 21.48     |                    |
|                   | High            | 21.62 |                          |            |         |           |                    |
|                   | 50%             | Low   | 20.71                    |            |         |           |                    |
|                   |                 | Mid   | 20.83                    |            |         |           |                    |
|                   |                 | High  | 20.75                    |            |         |           |                    |
| 100%              | ---             | 20.78 |                          |            |         |           |                    |

|      |      |       |      |       |      |       |       |
|------|------|-------|------|-------|------|-------|-------|
|      |      |       |      |       | 50%  | Low   | 20.77 |
|      |      |       |      |       |      | Mid   | 20.70 |
|      |      |       |      |       | High | 20.76 |       |
|      |      |       |      |       | 100% | ---   | 20.73 |
|      | 10   | 19150 | 1905 | QPSK  | 1    | Low   | 21.93 |
|      |      |       |      |       |      | Mid   | 21.97 |
|      |      |       |      |       |      | High  | 21.86 |
|      |      |       |      |       | 50%  | Low   | 21.85 |
|      |      |       |      |       |      | Mid   | 21.78 |
|      |      |       |      |       |      | High  | 21.79 |
|      |      |       |      | 100%  | ---  | 21.71 |       |
|      |      |       |      | 16QAM | 1    | Low   | 21.65 |
|      |      |       |      |       |      | Mid   | 21.03 |
|      |      |       |      |       |      | High  | 21.68 |
| 50%  | Low  | 20.82 |      |       |      |       |       |
|      | Mid  | 20.76 |      |       |      |       |       |
|      | High | 20.77 |      |       |      |       |       |
| 100% | ---  | 20.68 |      |       |      |       |       |



| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 15              | 19125 | 1902.5                   | QPSK       | 1       | Low       | 21.99              |
|                   |                 |       |                          |            |         | Mid       | 21.78              |
|                   |                 |       |                          |            |         | High      | 21.90              |
|                   |                 |       |                          |            | 50%     | Low       | 21.73              |
|                   |                 |       |                          |            |         | Mid       | 21.66              |
|                   |                 |       |                          |            |         | High      | 21.71              |
|                   |                 |       |                          | 100%       | ---     | 21.80     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.78              |
|                   |                 |       |                          |            |         | Mid       | 21.79              |
|                   |                 |       |                          |            |         | High      | 21.73              |
|                   |                 |       |                          |            | 50%     | Low       | 20.70              |
|                   |                 |       |                          |            |         | Mid       | 20.63              |
|                   | High            | 20.71 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.73                    |            |         |           |                    |
|                   | 20              | 19100 | 1900                     | QPSK       | 1       | Low       | 22.20              |
|                   |                 |       |                          |            |         | Mid       | 21.99              |
|                   |                 |       |                          |            |         | High      | 21.90              |
|                   |                 |       |                          |            | 50%     | Low       | 22.00              |
|                   |                 |       |                          |            |         | Mid       | 21.74              |
|                   |                 |       |                          |            |         | High      | 21.70              |
|                   |                 |       |                          | 100%       | ---     | 21.71     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.88              |
|                   |                 |       |                          |            |         | Mid       | 21.02              |
|                   |                 |       |                          |            |         | High      | 21.66              |
| 50%               |                 |       |                          |            | Low     | 20.74     |                    |
|                   |                 |       |                          |            | Mid     | 20.68     |                    |
|                   | High            | 20.69 |                          |            |         |           |                    |
| 100%              | ---             | 20.73 |                          |            |         |           |                    |

Band 4

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Low Range         | 1.4             | 19957 | 1710.7                   | QPSK       | 1       | Low       | 21.47              |
|                   |                 |       |                          |            |         | Mid       | 21.58              |
|                   |                 |       |                          |            |         | High      | 21.45              |
|                   |                 |       |                          |            | 50%     | Low       | 21.41              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.25              |
|                   |                 |       |                          | 100%       | ---     | 21.47     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.31              |
|                   |                 |       |                          |            |         | Mid       | 21.73              |
|                   |                 |       |                          |            |         | High      | 21.31              |
|                   |                 |       |                          |            | 50%     | Low       | 21.27              |
|                   |                 |       |                          |            |         | Mid       | 20.99              |
|                   | High            | 21.19 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.43                    |            |         |           |                    |
|                   | 3               | 19965 | 1711.5                   | QPSK       | 1       | Low       | 21.36              |
|                   |                 |       |                          |            |         | Mid       | 21.03              |
|                   |                 |       |                          |            |         | High      | 21.41              |
|                   |                 |       |                          |            | 50%     | Low       | 21.36              |
|                   |                 |       |                          |            |         | Mid       | 21.43              |
|                   |                 |       |                          |            |         | High      | 21.37              |
|                   |                 |       |                          | 100%       | ---     | 21.38     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.26              |
|                   |                 |       |                          |            |         | Mid       | 21.13              |
|                   |                 |       |                          |            |         | High      | 21.26              |
| 50%               |                 |       |                          |            | Low     | 20.31     |                    |
|                   |                 |       |                          |            | Mid     | 20.39     |                    |
|                   | High            | 20.40 |                          |            |         |           |                    |
| 100%              | ---             | 20.42 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Low Range         | 5               | 19975 | 1712.5                   | QPSK       | 1       | Low       | 21.47              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.39              |
|                   |                 |       |                          |            | 50%     | Low       | 21.39              |
|                   |                 |       |                          |            |         | Mid       | 21.33              |
|                   |                 |       |                          |            |         | High      | 21.38              |
|                   |                 |       |                          | 100%       | ---     | 21.27     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.32              |
|                   |                 |       |                          |            |         | Mid       | 21.18              |
|                   |                 |       |                          |            |         | High      | 21.31              |
|                   |                 |       |                          |            | 50%     | Low       | 20.32              |
|                   |                 |       |                          |            |         | Mid       | 20.26              |
|                   | High            | 20.30 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.28                    |            |         |           |                    |
|                   | 10              | 20000 | 1715                     | QPSK       | 1       | Low       | 21.45              |
|                   |                 |       |                          |            |         | Mid       | 21.51              |
|                   |                 |       |                          |            |         | High      | 21.45              |
|                   |                 |       |                          |            | 50%     | Low       | 21.32              |
|                   |                 |       |                          |            |         | Mid       | 21.26              |
|                   |                 |       |                          |            |         | High      | 21.31              |
|                   |                 |       |                          | 100%       | ---     | 21.29     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.68              |
|                   |                 |       |                          |            |         | High      | 21.33              |
| 50%               |                 |       |                          |            | Low     | 20.32     |                    |
|                   |                 |       |                          |            | Mid     | 20.28     |                    |
|                   | High            | 20.26 |                          |            |         |           |                    |
| 100%              | ---             | 20.25 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Low Range         | 15              | 20025 | 1717.5                   | QPSK       | 1       | Low       | 21.43              |
|                   |                 |       |                          |            |         | Mid       | 21.23              |
|                   |                 |       |                          |            |         | High      | 21.49              |
|                   |                 |       |                          |            | 50%     | Low       | 21.35              |
|                   |                 |       |                          |            |         | Mid       | 21.31              |
|                   |                 |       |                          |            |         | High      | 21.29              |
|                   |                 |       |                          | 100%       | ---     | 21.32     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.33              |
|                   |                 |       |                          |            |         | Mid       | 21.41              |
|                   |                 |       |                          |            |         | High      | 21.36              |
|                   |                 |       |                          |            | 50%     | Low       | 20.35              |
|                   |                 |       |                          |            |         | Mid       | 20.36              |
|                   | High            | 20.31 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.30                    |            |         |           |                    |
|                   | 20              | 20050 | 1720                     | QPSK       | 1       | Low       | 21.80              |
|                   |                 |       |                          |            |         | Mid       | 21.45              |
|                   |                 |       |                          |            |         | High      | 21.46              |
|                   |                 |       |                          |            | 50%     | Low       | 21.80              |
|                   |                 |       |                          |            |         | Mid       | 21.31              |
|                   |                 |       |                          |            |         | High      | 21.29              |
|                   |                 |       |                          | 100%       | ---     | 21.26     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.35              |
|                   |                 |       |                          |            |         | Mid       | 21.70              |
|                   |                 |       |                          |            |         | High      | 21.31              |
| 50%               |                 |       |                          |            | Low     | 20.27     |                    |
|                   |                 |       |                          |            | Mid     | 20.26     |                    |
|                   | High            | 20.28 |                          |            |         |           |                    |
| 100%              | ---             | 20.28 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 1.4             | 20175 | 1732.5                   | QPSK       | 1       | Low       | 21.27              |
|                   |                 |       |                          |            |         | Mid       | 21.39              |
|                   |                 |       |                          |            |         | High      | 21.20              |
|                   |                 |       |                          |            | 50%     | Low       | 21.21              |
|                   |                 |       |                          |            |         | Mid       | 21.94              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          | 100%       | ---     | 21.23     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.13              |
|                   |                 |       |                          |            |         | Mid       | 21.54              |
|                   |                 |       |                          |            |         | High      | 21.12              |
|                   |                 |       |                          |            | 50%     | Low       | 21.08              |
|                   |                 |       |                          |            |         | Mid       | 20.80              |
|                   | High            | 20.99 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.21                    |            |         |           |                    |
|                   | 3               | 20175 | 1732.5                   | QPSK       | 1       | Low       | 21.25              |
|                   |                 |       |                          |            |         | Mid       | 21.85              |
|                   |                 |       |                          |            |         | High      | 21.24              |
|                   |                 |       |                          |            | 50%     | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.27              |
|                   |                 |       |                          |            |         | High      | 21.25              |
|                   |                 |       |                          | 100%       | ---     | 21.20     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.14              |
|                   |                 |       |                          |            |         | Mid       | 21.96              |
|                   |                 |       |                          |            |         | High      | 21.10              |
| 50%               |                 |       |                          |            | Low     | 20.21     |                    |
|                   |                 |       |                          |            | Mid     | 20.31     |                    |
|                   | High            | 20.25 |                          |            |         |           |                    |
| 100%              | ---             | 20.26 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 5               | 20175 | 1732.5                   | QPSK       | 1       | Low       | 21.31              |
|                   |                 |       |                          |            |         | Mid       | 21.82              |
|                   |                 |       |                          |            |         | High      | 21.23              |
|                   |                 |       |                          |            | 50%     | Low       | 21.25              |
|                   |                 |       |                          |            |         | Mid       | 21.14              |
|                   |                 |       |                          |            |         | High      | 21.23              |
|                   |                 |       |                          | 100%       | ---     | 21.14     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.19              |
|                   |                 |       |                          |            |         | Mid       | 21.95              |
|                   |                 |       |                          |            |         | High      | 21.07              |
|                   |                 |       |                          |            | 50%     | Low       | 20.17              |
|                   |                 |       |                          |            |         | Mid       | 20.10              |
|                   | High            | 20.14 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.16                    |            |         |           |                    |
|                   | 10              | 20175 | 1732.5                   | QPSK       | 1       | Low       | 21.40              |
|                   |                 |       |                          |            |         | Mid       | 21.37              |
|                   |                 |       |                          |            |         | High      | 21.31              |
|                   |                 |       |                          |            | 50%     | Low       | 21.18              |
|                   |                 |       |                          |            |         | Mid       | 21.11              |
|                   |                 |       |                          |            |         | High      | 21.19              |
|                   |                 |       |                          | 100%       | ---     | 21.16     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.26              |
|                   |                 |       |                          |            |         | Mid       | 21.54              |
|                   |                 |       |                          |            |         | High      | 21.12              |
| 50%               |                 |       |                          |            | Low     | 20.21     |                    |
|                   |                 |       |                          |            | Mid     | 20.14     |                    |
|                   | High            | 20.18 |                          |            |         |           |                    |
| 100%              | ---             | 20.12 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 15              | 20175 | 1732.5                   | QPSK       | 1       | Low       | 21.86              |
|                   |                 |       |                          |            |         | Mid       | 21.06              |
|                   |                 |       |                          |            |         | High      | 21.32              |
|                   |                 |       |                          |            | 50%     | Low       | 21.18              |
|                   |                 |       |                          |            |         | Mid       | 21.13              |
|                   |                 |       |                          |            |         | High      | 21.14              |
|                   |                 |       |                          | 100%       | ---     | 21.16     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.23              |
|                   |                 |       |                          |            |         | Mid       | 21.22              |
|                   | High            | 21.11 |                          |            |         |           |                    |
|                   | 50%             | Low   | 20.14                    |            |         |           |                    |
|                   |                 | Mid   | 20.12                    |            |         |           |                    |
|                   |                 | High  | 20.09                    |            |         |           |                    |
|                   | 100%            | ---   | 20.14                    |            |         |           |                    |
|                   | 20              | 20175 | 1732.5                   | QPSK       | 1       | Low       | 22.00              |
|                   |                 |       |                          |            |         | Mid       | 21.36              |
|                   |                 |       |                          |            |         | High      | 21.39              |
|                   |                 |       |                          |            | 50%     | Low       | 22.00              |
| Mid               |                 |       |                          |            |         | 21.57     |                    |
| High              |                 |       |                          |            |         | 21.58     |                    |
| 100%              |                 |       |                          | ---        | 21.54   |           |                    |
| 16QAM             |                 |       |                          | 1          | Low     | 21.30     |                    |
|                   |                 |       |                          |            | Mid     | 21.52     |                    |
|                   | High            | 21.13 |                          |            |         |           |                    |
|                   | 50%             | Low   | 20.18                    |            |         |           |                    |
|                   |                 | Mid   | 20.13                    |            |         |           |                    |
|                   |                 | High  | 20.09                    |            |         |           |                    |
| 100%              | ---             | 20.19 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 1.4             | 20393 | 1754.3                   | QPSK       | 1       | Low       | 21.38              |
|                   |                 |       |                          |            |         | Mid       | 21.45              |
|                   |                 |       |                          |            |         | High      | 21.37              |
|                   |                 |       |                          |            | 50%     | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.02              |
|                   |                 |       |                          |            |         | High      | 21.21              |
|                   |                 |       |                          | 100%       | ---     | 21.33     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.25              |
|                   |                 |       |                          |            |         | Mid       | 21.63              |
|                   |                 |       |                          |            |         | High      | 21.23              |
|                   |                 |       |                          |            | 50%     | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 20.88              |
|                   | High            | 21.08 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.34                    |            |         |           |                    |
|                   | 3               | 20385 | 1753.5                   | QPSK       | 1       | Low       | 21.37              |
|                   |                 |       |                          |            |         | Mid       | 21.00              |
|                   |                 |       |                          |            |         | High      | 21.40              |
|                   |                 |       |                          |            | 50%     | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.34              |
|                   |                 |       |                          |            |         | High      | 21.30              |
|                   |                 |       |                          | 100%       | ---     | 21.34     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.27              |
|                   |                 |       |                          |            |         | Mid       | 21.09              |
|                   |                 |       |                          |            |         | High      | 21.26              |
| 50%               |                 |       |                          |            | Low     | 20.32     |                    |
|                   |                 |       |                          |            | Mid     | 20.39     |                    |
|                   | High            | 20.36 |                          |            |         |           |                    |
| 100%              | ---             | 20.38 |                          |            |         |           |                    |



| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 5               | 20375 | 1752.5                   | QPSK       | 1       | Low       | 21.40              |
|                   |                 |       |                          |            |         | Mid       | 21.99              |
|                   |                 |       |                          |            |         | High      | 21.36              |
|                   |                 |       |                          |            | 50%     | Low       | 21.38              |
|                   |                 |       |                          |            |         | Mid       | 21.30              |
|                   |                 |       |                          |            |         | High      | 21.29              |
|                   |                 |       |                          | 100%       | ---     | 21.20     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.22              |
|                   |                 |       |                          |            |         | Mid       | 21.09              |
|                   |                 |       |                          |            |         | High      | 21.20              |
|                   |                 |       |                          |            | 50%     | Low       | 20.27              |
|                   |                 |       |                          |            |         | Mid       | 20.23              |
|                   | High            | 20.25 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.26                    |            |         |           |                    |
|                   | 10              | 20350 | 1750                     | QPSK       | 1       | Low       | 21.38              |
|                   |                 |       |                          |            |         | Mid       | 21.46              |
|                   |                 |       |                          |            |         | High      | 21.51              |
|                   |                 |       |                          |            | 50%     | Low       | 21.23              |
|                   |                 |       |                          |            |         | Mid       | 21.24              |
|                   |                 |       |                          |            |         | High      | 21.23              |
|                   |                 |       |                          | 100%       | ---     | 21.25     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.27              |
|                   |                 |       |                          |            |         | Mid       | 21.62              |
|                   |                 |       |                          |            |         | High      | 21.30              |
| 50%               |                 |       |                          |            | Low     | 20.29     |                    |
|                   |                 |       |                          |            | Mid     | 20.27     |                    |
|                   | High            | 20.33 |                          |            |         |           |                    |
| 100%              | ---             | 20.26 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 15              | 20325 | 1747.5                   | QPSK       | 1       | Low       | 21.73              |
|                   |                 |       |                          |            |         | Mid       | 21.21              |
|                   |                 |       |                          |            |         | High      | 21.53              |
|                   |                 |       |                          |            | 50%     | Low       | 21.27              |
|                   |                 |       |                          |            |         | Mid       | 21.25              |
|                   |                 |       |                          |            |         | High      | 21.31              |
|                   |                 |       |                          | 100%       | ---     | 21.30     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.21              |
|                   |                 |       |                          |            |         | Mid       | 21.36              |
|                   |                 |       |                          |            |         | High      | 21.37              |
|                   |                 |       |                          |            | 50%     | Low       | 20.21              |
|                   |                 |       |                          |            |         | Mid       | 20.23              |
|                   | High            | 20.32 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.29                    |            |         |           |                    |
|                   | 20              | 20300 | 1745                     | QPSK       | 1       | Low       | 21.50              |
|                   |                 |       |                          |            |         | Mid       | 21.47              |
|                   |                 |       |                          |            |         | High      | 21.50              |
|                   |                 |       |                          |            | 50%     | Low       | 21.50              |
|                   |                 |       |                          |            |         | Mid       | 21.29              |
|                   |                 |       |                          |            |         | High      | 21.34              |
|                   |                 |       |                          | 100%       | ---     | 21.29     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.25              |
|                   |                 |       |                          |            |         | Mid       | 21.63              |
|                   |                 |       |                          |            |         | High      | 21.34              |
| 50%               |                 |       |                          |            | Low     | 20.21     |                    |
|                   |                 |       |                          |            | Mid     | 20.23     |                    |
|                   | High            | 20.27 |                          |            |         |           |                    |
| 100%              | ---             | 20.25 |                          |            |         |           |                    |

**Band 5**

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Low Range         | 1.4             | 20407 | 821.7                    | QPSK       | 1       | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   |                 |       |                          |            |         | High      | 21.20              |
|                   |                 |       |                          |            | 50%     | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   |                 |       |                          |            |         | High      | 21.20              |
|                   |                 |       |                          | 100%       | ---     | 21.20     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   |                 |       |                          |            |         | High      | 21.20              |
|                   |                 |       |                          |            | 50%     | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   | High            | 21.10 |                          |            |         |           |                    |
|                   | 100%            | ---   | 21.10                    |            |         |           |                    |
|                   | 3               | 20415 | 825.5                    | QPSK       | 1       | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.00              |
|                   |                 |       |                          |            |         | High      | 21.00              |
|                   |                 |       |                          |            | 50%     | Low       | 21.00              |
|                   |                 |       |                          |            |         | Mid       | 21.00              |
|                   |                 |       |                          |            |         | High      | 21.00              |
|                   |                 |       |                          | 100%       | ---     | 21.00     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.00              |
|                   |                 |       |                          |            |         | Mid       | 21.00              |
|                   |                 |       |                          |            |         | High      | 21.00              |
| 50%               |                 |       |                          |            | Low     | 21.00     |                    |
|                   |                 |       |                          |            | Mid     | 21.00     |                    |
|                   | High            | 21.00 |                          |            |         |           |                    |
| 100%              | ---             | 21.00 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Low Range         | 5               | 29425 | 826.5                    | QPSK       | 1       | Low       | 21.10              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 21.10              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          | 100%       | ---     | 21.10     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.30              |
|                   | High            | 21.30 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.30                    |            |         |           |                    |
|                   |                 | Mid   | 21.30                    |            |         |           |                    |
|                   |                 | High  | 21.20                    |            |         |           |                    |
|                   | 100%            | ---   | 21.20                    |            |         |           |                    |
|                   | 10              | 20450 | 829                      | QPSK       | 1       | Low       | 22.00              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 22.00              |
| Mid               |                 |       |                          |            |         | 21.10     |                    |
| High              |                 |       |                          |            |         | 21.10     |                    |
| 100%              |                 |       |                          | ---        | 21.10   |           |                    |
| 16QAM             |                 |       |                          | 1          | Low     | 21.10     |                    |
|                   |                 |       |                          |            | Mid     | 21.10     |                    |
|                   | High            | 21.10 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.10                    |            |         |           |                    |
|                   |                 | Mid   | 21.10                    |            |         |           |                    |
|                   |                 | High  | 21.10                    |            |         |           |                    |
| 100%              | ---             | 21.10 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 1.4             | 20525 | 836.5                    | QPSK       | 1       | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          | 100%       | ---     | 21.10     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   | High            | 21.20 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.20                    |            |         |           |                    |
|                   |                 | Mid   | 21.20                    |            |         |           |                    |
|                   |                 | High  | 21.20                    |            |         |           |                    |
|                   | 100%            | ---   | 21.20                    |            |         |           |                    |
|                   | 3               | 20525 | 836.5                    | QPSK       | 1       | Low       | 21.10              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 21.10              |
| Mid               |                 |       |                          |            |         | 21.10     |                    |
| High              |                 |       |                          |            |         | 21.10     |                    |
| 100%              |                 |       |                          | ---        | 21.10   |           |                    |
| 16QAM             |                 |       |                          | 1          | Low     | 21.10     |                    |
|                   |                 |       |                          |            | Mid     | 21.10     |                    |
|                   | High            | 21.10 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.10                    |            |         |           |                    |
|                   |                 | Mid   | 21.10                    |            |         |           |                    |
|                   |                 | High  | 21.10                    |            |         |           |                    |
| 100%              | ---             | 21.10 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 5               | 20525 | 836.5                    | QPSK       | 1       | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.30              |
|                   |                 |       |                          |            |         | High      | 21.30              |
|                   |                 |       |                          |            | 50%     | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.30              |
|                   |                 |       |                          |            |         | High      | 21.30              |
|                   |                 |       |                          | 100%       | ---     | 21.30     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.50              |
|                   |                 |       |                          |            |         | Mid       | 21.50              |
|                   | High            | 21.50 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.40                    |            |         |           |                    |
|                   |                 | Mid   | 21.40                    |            |         |           |                    |
|                   |                 | High  | 21.40                    |            |         |           |                    |
|                   | 100%            | ---   | 21.40                    |            |         |           |                    |
|                   | 10              | 20525 | 836.5                    | QPSK       | 1       | Low       | 22.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 22.30              |
| Mid               |                 |       |                          |            |         | 21.10     |                    |
| High              |                 |       |                          |            |         | 21.10     |                    |
| 100%              |                 |       |                          | ---        | 21.10   |           |                    |
| 16QAM             |                 |       |                          | 1          | Low     | 21.00     |                    |
|                   |                 |       |                          |            | Mid     | 21.10     |                    |
|                   | High            | 21.10 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.10                    |            |         |           |                    |
|                   |                 | Mid   | 21.00                    |            |         |           |                    |
|                   |                 | High  | 21.10                    |            |         |           |                    |
| 100%              | ---             | 21.10 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |       |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|-------|
| High Range        | 1.4             | 20643 | 848.3                    | QPSK       | 1       | Low       | 21.50              |       |
|                   |                 |       |                          |            |         | Mid       | 21.00              |       |
|                   |                 |       |                          |            |         | High      | 21.60              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.00              |       |
|                   |                 |       |                          |            |         | Mid       | 21.10              |       |
|                   |                 |       |                          |            |         | High      | 21.00              |       |
|                   |                 |       |                          | 100%       | ---     | 21.00     |                    |       |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.10              |       |
|                   |                 |       |                          |            |         | Mid       | 21.10              |       |
|                   | High            | 21.10 |                          |            |         |           |                    |       |
|                   | 50%             | Low   | 21.10                    |            |         |           |                    |       |
|                   |                 | Mid   | 21.10                    |            |         |           |                    |       |
|                   |                 | High  | 21.10                    |            |         |           |                    |       |
|                   | 100%            | ---   | 21.10                    |            |         |           |                    |       |
|                   | 3               | 20635 | 847.5                    | QPSK       | 1       | Low       | 21.00              |       |
|                   |                 |       |                          |            |         | Mid       | 21.50              |       |
|                   |                 |       |                          |            |         | High      | 21.60              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.00              |       |
|                   |                 |       |                          |            |         | Mid       | 21.70              |       |
|                   |                 |       |                          |            |         | High      | 21.70              |       |
|                   |                 |       |                          |            | 100%    | ---       | 21.10              |       |
|                   |                 |       |                          |            | 16QAM   | 1         | Low                | 21.00 |
|                   |                 |       |                          |            |         |           | Mid                | 21.00 |
|                   |                 |       |                          | High       |         |           | 21.00              |       |
| 50%               |                 |       |                          | Low        |         | 21.00     |                    |       |
|                   |                 |       |                          | Mid        |         | 21.00     |                    |       |
|                   |                 |       |                          | High       |         | 21.00     |                    |       |
| 100%              |                 |       |                          | ---        | 21.00   |           |                    |       |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 5               | 20625 | 846.5                    | QPSK       | 1       | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 21.10              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          | 100%       | ---     | 21.10     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   | High            | 21.20 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.20                    |            |         |           |                    |
|                   |                 | Mid   | 21.20                    |            |         |           |                    |
|                   |                 | High  | 21.20                    |            |         |           |                    |
|                   | 100%            | ---   | 21.20                    |            |         |           |                    |
|                   | 10              | 20600 | 844                      | QPSK       | 1       | Low       | 21.80              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 22.00              |
| Mid               |                 |       |                          |            |         | 21.10     |                    |
| High              |                 |       |                          |            |         | 21.10     |                    |
| 100%              |                 |       |                          | ---        | 21.10   |           |                    |
| 16QAM             |                 |       |                          | 1          | Low     | 21.10     |                    |
|                   |                 |       |                          |            | Mid     | 21.10     |                    |
|                   | High            | 21.10 |                          |            |         |           |                    |
|                   | 50%             | Low   | 21.10                    |            |         |           |                    |
|                   |                 | Mid   | 21.00                    |            |         |           |                    |
|                   |                 | High  | 21.10                    |            |         |           |                    |
| 100%              | ---             | 21.10 |                          |            |         |           |                    |



Band 7

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Low Range         | 5               | 20775 | 2502.5                   | QPSK       | 1       | Low       | 21.40              |
|                   |                 |       |                          |            |         | Mid       | 21.30              |
|                   |                 |       |                          |            |         | High      | 21.40              |
|                   |                 |       |                          |            | 50%     | Low       | 21.40              |
|                   |                 |       |                          |            |         | Mid       | 21.30              |
|                   |                 |       |                          |            |         | High      | 21.30              |
|                   |                 |       |                          | 100%       | ---     | 21.30     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 20.60              |
|                   |                 |       |                          |            |         | Mid       | 20.60              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 20.60              |
|                   |                 |       |                          |            |         | Mid       | 20.50              |
|                   | High            | 20.90 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.60                    |            |         |           |                    |
|                   | 10              | 20800 | 2505                     | QPSK       | 1       | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   |                 |       |                          |            |         | High      | 21.20              |
|                   |                 |       |                          |            | 50%     | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   |                 |       |                          |            |         | High      | 21.20              |
|                   |                 |       |                          | 100%       | ---     | 21.10     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.20              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   |                 |       |                          |            |         | High      | 21.20              |
| 50%               |                 |       |                          |            | Low     | 21.20     |                    |
|                   |                 |       |                          |            | Mid     | 21.20     |                    |
|                   | High            | 21.20 |                          |            |         |           |                    |
| 100%              | ---             | 21.10 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |       |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|-------|
| Low Range         | 15              | 20825 | 2507.5                   | QPSK       | 1       | Low       | 21.70              |       |
|                   |                 |       |                          |            |         | Mid       | 21.70              |       |
|                   |                 |       |                          |            |         | High      | 21.70              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.70              |       |
|                   |                 |       |                          |            |         | Mid       | 21.70              |       |
|                   |                 |       |                          |            |         | High      | 21.70              |       |
|                   |                 |       |                          |            | 100%    | ---       | 21.70              |       |
|                   |                 |       |                          |            | 16QAM   | 1         | Low                | 20.60 |
|                   |                 |       |                          |            |         |           | Mid                | 20.80 |
|                   |                 |       |                          | High       |         |           | 20.60              |       |
|                   |                 |       |                          | 50%        |         | Low       | 21.40              |       |
|                   |                 |       |                          |            |         | Mid       | 21.30              |       |
|                   | High            | 21.30 |                          |            |         |           |                    |       |
|                   | 100%            | ---   | 21.40                    |            |         |           |                    |       |
|                   | 20              | 20850 | 2510                     | QPSK       |         | 1         | Low                | 21.60 |
|                   |                 |       |                          |            |         |           | Mid                | 21.60 |
|                   |                 |       |                          |            | High    |           | 21.60              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.40              |       |
|                   |                 |       |                          |            |         | Mid       | 21.00              |       |
|                   |                 |       |                          |            |         | High      | 21.00              |       |
|                   |                 |       |                          |            | 100%    | ---       | 21.80              |       |
|                   |                 |       |                          |            | 16QAM   | 1         | Low                | 21.30 |
|                   |                 |       |                          |            |         |           | Mid                | 21.30 |
|                   |                 |       |                          | High       |         |           | 21.20              |       |
| 50%               |                 |       |                          | Low        |         | 21.30     |                    |       |
|                   |                 |       |                          | Mid        |         | 21.30     |                    |       |
|                   | High            | 21.30 |                          |            |         |           |                    |       |
| 100%              | ---             | 21.30 |                          |            |         |           |                    |       |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| Mid Range         | 5               | 21100 | 2535                     | QPSK       | 1       | Low       | 21.50              |
|                   |                 |       |                          |            |         | Mid       | 21.50              |
|                   |                 |       |                          |            |         | High      | 21.50              |
|                   |                 |       |                          |            | 50%     | Low       | 21.50              |
|                   |                 |       |                          |            |         | Mid       | 21.50              |
|                   |                 |       |                          |            |         | High      | 21.50              |
|                   |                 |       |                          | 100%       | ---     | 21.50     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 20.80              |
|                   |                 |       |                          |            |         | Mid       | 20.80              |
|                   |                 |       |                          |            |         | High      | 20.60              |
|                   |                 |       |                          |            | 50%     | Low       | 20.60              |
|                   |                 |       |                          |            |         | Mid       | 20.80              |
|                   | High            | 20.60 |                          |            |         |           |                    |
|                   | 100%            | ---   | 20.50                    |            |         |           |                    |
|                   | 10              | 21100 | 2535                     | QPSK       | 1       | Low       | 21.70              |
|                   |                 |       |                          |            |         | Mid       | 21.70              |
|                   |                 |       |                          |            |         | High      | 21.70              |
|                   |                 |       |                          |            | 50%     | Low       | 21.90              |
|                   |                 |       |                          |            |         | Mid       | 21.00              |
|                   |                 |       |                          |            |         | High      | 21.00              |
|                   |                 |       |                          | 100%       | ---     | 21.90     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.00              |
|                   |                 |       |                          |            |         | Mid       | 21.00              |
|                   |                 |       |                          |            |         | High      | 21.00              |
| 50%               |                 |       |                          |            | Low     | 21.00     |                    |
|                   |                 |       |                          |            | Mid     | 21.10     |                    |
|                   | High            | 21.10 |                          |            |         |           |                    |
| 100%              | ---             | 21.10 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |       |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|-------|
| Mid Range         | 15              | 21100 | 2535                     | QPSK       | 1       | Low       | 21.30              |       |
|                   |                 |       |                          |            |         | Mid       | 21.20              |       |
|                   |                 |       |                          |            |         | High      | 21.20              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.30              |       |
|                   |                 |       |                          |            |         | Mid       | 21.40              |       |
|                   |                 |       |                          |            |         | High      | 21.20              |       |
|                   |                 |       |                          | 100%       | ---     | 21.10     |                    |       |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.00              |       |
|                   |                 |       |                          |            |         | Mid       | 21.00              |       |
|                   |                 |       |                          |            |         | High      | 21.00              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.00              |       |
|                   |                 |       |                          |            |         | Mid       | 21.00              |       |
|                   | High            | 21.10 |                          |            |         |           |                    |       |
|                   | 100%            | ---   | 21.10                    |            |         |           |                    |       |
|                   | 20              | 21100 | 2535                     | QPSK       | 1       | Low       | 21.40              |       |
|                   |                 |       |                          |            |         | Mid       | 21.30              |       |
|                   |                 |       |                          |            |         | High      | 21.30              |       |
|                   |                 |       |                          |            | 50%     | Low       | 21.50              |       |
|                   |                 |       |                          |            |         | Mid       | 21.30              |       |
|                   |                 |       |                          |            |         | High      | 21.30              |       |
|                   |                 |       |                          |            | 100%    | ---       | 21.10              |       |
|                   |                 |       |                          |            | 16QAM   | 1         | Low                | 21.10 |
|                   |                 |       |                          |            |         |           | Mid                | 21.10 |
|                   |                 |       |                          |            |         |           | High               | 21.10 |
| 50%               |                 |       |                          |            |         | Low       | 21.10              |       |
|                   |                 |       |                          |            |         | Mid       | 21.10              |       |
|                   | High            | 21.10 |                          |            |         |           |                    |       |
| 100%              | ---             | 21.10 |                          |            |         |           |                    |       |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 5               | 21425 | 2567.5                   | QPSK       | 1       | Low       | 21.10              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          |            | 50%     | Low       | 21.10              |
|                   |                 |       |                          |            |         | Mid       | 21.10              |
|                   |                 |       |                          |            |         | High      | 21.10              |
|                   |                 |       |                          | 100%       | ---     | 21.10     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.30              |
|                   |                 |       |                          |            |         | High      | 21.30              |
|                   |                 |       |                          |            | 50%     | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.20              |
|                   | High            | 21.20 |                          |            |         |           |                    |
|                   | 100%            | ---   | 21.20                    |            |         |           |                    |
|                   | 10              | 21400 | 2565                     | QPSK       | 1       | Low       | 21.80              |
|                   |                 |       |                          |            |         | Mid       | 21.80              |
|                   |                 |       |                          |            |         | High      | 21.80              |
|                   |                 |       |                          |            | 50%     | Low       | 21.70              |
|                   |                 |       |                          |            |         | Mid       | 21.70              |
|                   |                 |       |                          |            |         | High      | 21.70              |
|                   |                 |       |                          | 100%       | ---     | 21.70     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.70              |
|                   |                 |       |                          |            |         | Mid       | 21.70              |
|                   |                 |       |                          |            |         | High      | 21.70              |
| 50%               |                 |       |                          |            | Low     | 21.70     |                    |
|                   |                 |       |                          |            | Mid     | 21.80     |                    |
|                   | High            | 21.70 |                          |            |         |           |                    |
| 100%              | ---             | 21.60 |                          |            |         |           |                    |

| Test Frequency ID | Bandwidth (MHz) | NUL   | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------|-----------------|-------|--------------------------|------------|---------|-----------|--------------------|
| High Range        | 15              | 21375 | 2562.5                   | QPSK       | 1       | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.40              |
|                   |                 |       |                          |            |         | High      | 21.40              |
|                   |                 |       |                          |            | 50%     | Low       | 21.40              |
|                   |                 |       |                          |            |         | Mid       | 21.40              |
|                   |                 |       |                          |            |         | High      | 21.40              |
|                   |                 |       |                          | 100%       | ---     | 21.30     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.40              |
|                   |                 |       |                          |            |         | Mid       | 21.40              |
|                   |                 |       |                          |            |         | High      | 21.40              |
|                   |                 |       |                          |            | 50%     | Low       | 21.40              |
|                   |                 |       |                          |            |         | Mid       | 21.40              |
|                   | High            | 21.40 |                          |            |         |           |                    |
|                   | 100%            | ---   | 21.30                    |            |         |           |                    |
|                   | 20              | 21350 | 2560                     | QPSK       | 1       | Low       | 21.00              |
|                   |                 |       |                          |            |         | Mid       | 21.00              |
|                   |                 |       |                          |            |         | High      | 21.00              |
|                   |                 |       |                          |            | 50%     | Low       | 21.00              |
|                   |                 |       |                          |            |         | Mid       | 21.00              |
|                   |                 |       |                          |            |         | High      | 21.00              |
|                   |                 |       |                          | 100%       | ---     | 21.90     |                    |
|                   |                 |       |                          | 16QAM      | 1       | Low       | 21.30              |
|                   |                 |       |                          |            |         | Mid       | 21.30              |
|                   |                 |       |                          |            |         | High      | 21.30              |
| 50%               |                 |       |                          |            | Low     | 21.30     |                    |
|                   |                 |       |                          |            | Mid     | 21.30     |                    |
|                   | High            | 21.30 |                          |            |         |           |                    |
| 100%              | ---             | 21.30 |                          |            |         |           |                    |

## 6.5 Bluetooth Measurement result

| Modulation type | Test Result (dBm) |               |               |
|-----------------|-------------------|---------------|---------------|
|                 | 2402MHz(Ch0)      | 2441MHz(Ch39) | 2480MHz(Ch78) |
| GFSK            | -3.45             | -4.58         | -5.19         |
| $\pi/4$ DQPSK   | -3.27             | -4.39         | -5.36         |
| 8DPSK           | -3.11             | -4.59         | -5.89         |
| GFSK(BLE)       | 2402MHz(Ch0)      | 2440MHz(Ch19) | 2480MHz(Ch39) |
|                 | 1.31              | 1.14          | 1.18          |

| Modulation type | Test Result (mW) |               |               |
|-----------------|------------------|---------------|---------------|
|                 | 2402MHz(Ch0)     | 2441MHz(Ch39) | 2480MHz(Ch78) |
| GFSK            | 0.45             | 0.35          | 0.30          |
| $\pi/4$ DQPSK   | 0.47             | 0.36          | 0.29          |
| 8DPSK           | 0.49             | 0.35          | 0.26          |
| GFSK(BLE)       | 2402MHz(Ch0)     | 2440MHz(Ch19) | 2480MHz(Ch39) |
|                 | 1.35             | 1.30          | 1.31          |

## 6.6 Wi-Fi Measurement result

| Modulation type |           | Average power output (dBm) |                  |                   |
|-----------------|-----------|----------------------------|------------------|-------------------|
|                 |           | 2412MHz<br>(Ch1)           | 2437MHz<br>(Ch6) | 2462MHz<br>(Ch11) |
| 11b             | 1 Mbps    | 12.03                      | 12.16            | 12.12             |
|                 | 2 Mbps    | 11.98                      | 11.85            | 11.89             |
|                 | 5.5 Mbps  | 11.83                      | 11.72            | 11.67             |
|                 | 11 Mbps   | 11.76                      | 11.69            | 11.52             |
| 11g             | 6 Mbps    | 10.98                      | 11.12            | 11.03             |
|                 | 9 Mbps    | 10.83                      | 11.02            | 10.93             |
|                 | 12 Mbps   | 10.72                      | 10.93            | 10.88             |
|                 | 18 Mbps   | 10.66                      | 10.82            | 10.75             |
|                 | 24 Mbps   | 10.53                      | 10.71            | 10.69             |
|                 | 36 Mbps   | 10.47                      | 10.49            | 10.48             |
|                 | 48 Mbps   | 10.38                      | 10.35            | 10.36             |
|                 | 54 Mbps   | 10.32                      | 10.26            | 10.18             |
| 11n<br>HT20     | 6.5 Mbps  | 10.81                      | 10.92            | 10.85             |
|                 | 13 Mbps   | 10.72                      | 10.73            | 10.72             |
|                 | 19.5 Mbps | 10.64                      | 10.48            | 10.53             |
|                 | 26 Mbps   | 10.52                      | 10.27            | 10.39             |
|                 | 39 Mbps   | 10.44                      | 10.04            | 10.27             |
|                 | 52 Mbps   | 10.12                      | 9.89             | 10.17             |
|                 | 58.5 Mbps | 9.63                       | 9.72             | 9.92              |
|                 | 65 Mbps   | 9.22                       | 9.42             | 9.71              |



| Modulation type |           | Average power output (mW) |                  |                   |
|-----------------|-----------|---------------------------|------------------|-------------------|
|                 |           | 2412MHz<br>(Ch1)          | 2437MHz<br>(Ch6) | 2462MHz<br>(Ch11) |
| 11b             | 1 Mbps    | 15.96                     | 16.44            | 16.29             |
|                 | 2 Mbps    | 15.78                     | 15.31            | 15.45             |
|                 | 5.5 Mbps  | 15.24                     | 14.86            | 14.69             |
|                 | 11 Mbps   | 15.00                     | 14.76            | 14.19             |
| 11g             | 6 Mbps    | 12.53                     | 12.94            | 12.68             |
|                 | 9 Mbps    | 12.11                     | 12.65            | 12.39             |
|                 | 12 Mbps   | 11.80                     | 12.39            | 12.25             |
|                 | 18 Mbps   | 11.64                     | 12.08            | 11.89             |
|                 | 24 Mbps   | 11.30                     | 11.78            | 11.72             |
|                 | 36 Mbps   | 11.14                     | 11.19            | 11.17             |
|                 | 48 Mbps   | 10.91                     | 10.84            | 10.86             |
|                 | 54 Mbps   | 10.76                     | 10.62            | 10.42             |
| 11n<br>HT20     | 6.5 Mbps  | 12.05                     | 12.36            | 12.16             |
|                 | 13 Mbps   | 11.80                     | 11.83            | 11.80             |
|                 | 19.5 Mbps | 11.59                     | 11.17            | 11.30             |
|                 | 26 Mbps   | 11.27                     | 10.64            | 10.94             |
|                 | 39 Mbps   | 11.07                     | 10.09            | 10.64             |
|                 | 52 Mbps   | 10.28                     | 9.75             | 10.40             |
|                 | 58.5 Mbps | 9.18                      | 9.38             | 9.82              |
|                 | 65 Mbps   | 8.36                      | 8.75             | 9.35              |

## 6.7 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### **SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq 50$ mm**

According to the KDB447498 4.3.1 (1)

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} (\text{GHz})] \leq 3.0$  for 1-g SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

This is equivalent to  $[(\text{max. power of channel, including tune-up tolerance, mW}) / (60 / \sqrt{f} (\text{GHz}) \text{ mW})] \cdot [20 \text{ mm} / (\text{min. test separation distance, mm})] \leq 1.0$  for 1-g SAR; also see Appendix A for approximate exclusion threshold values at selected frequencies and distances.

According to the KDB447498 appendix A

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

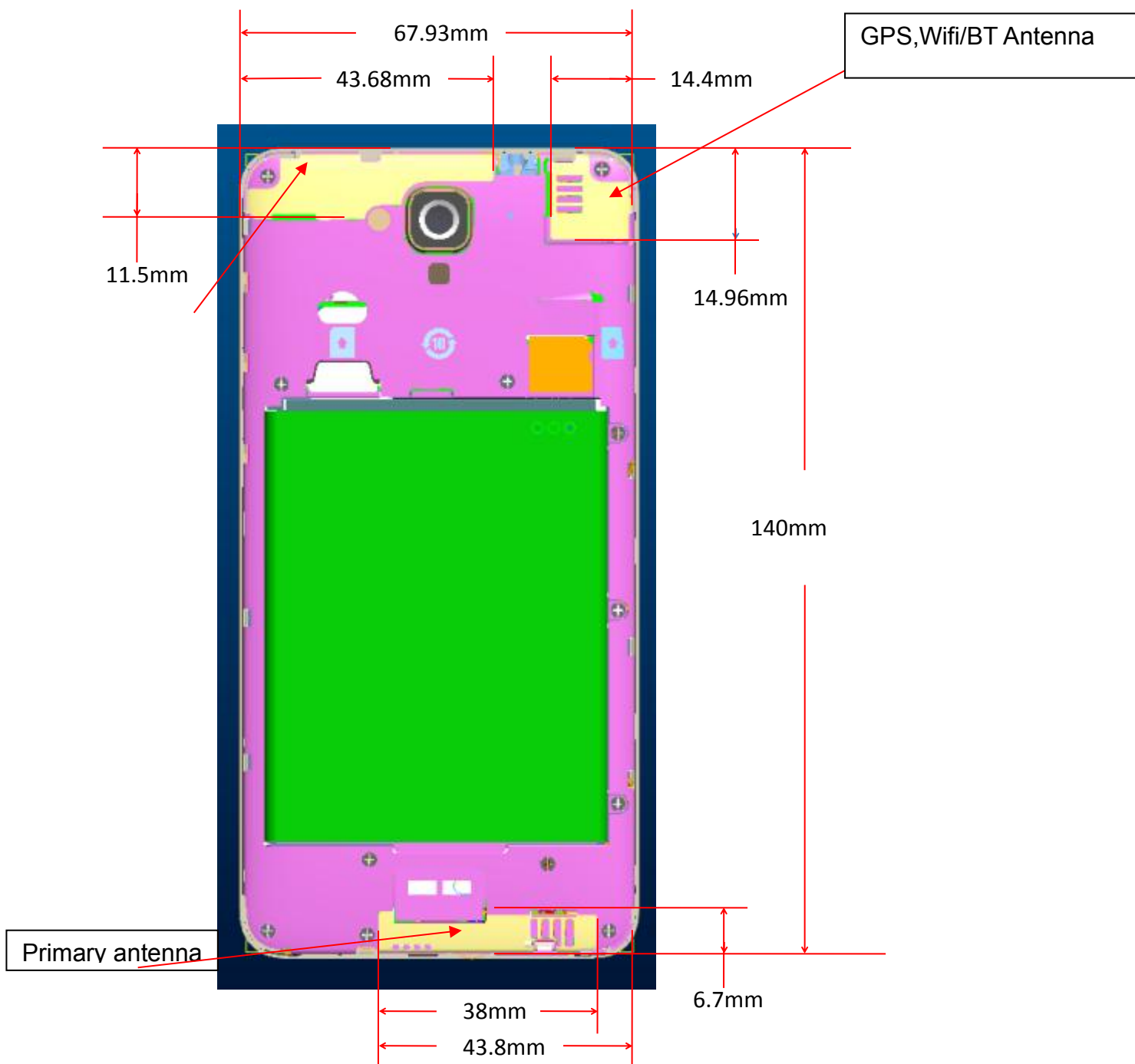
| MHz  | 5  | 10 | 15  | 20  | 25  | mm   |
|------|----|----|-----|-----|-----|--|
| 150  | 39 | 77 | 116 | 155 | 194 | <i>SAR Test<br/>Exclusion<br/>Threshold (mW)</i> |
| 300  | 27 | 55 | 82  | 110 | 137 |  |
| 450  | 22 | 45 | 67  | 89  | 112 |  |
| 835  | 16 | 33 | 49  | 66  | 82  |  |
| 900  | 16 | 32 | 47  | 63  | 79  |  |
| 1500 | 12 | 24 | 37  | 49  | 61  |  |
| 1900 | 11 | 22 | 33  | 44  | 54  |  |
| 2450 | 10 | 19 | 29  | 38  | 48  |  |
| 3600 | 8  | 16 | 24  | 32  | 40  |  |
| 5200 | 7  | 13 | 20  | 26  | 33  |  |
| 5400 | 6  | 13 | 19  | 26  | 32  |  |
| 5800 | 6  | 12 | 19  | 25  | 31  |  |

### Summary of Transmitters

| Band/Mode                 | Max.RF output power (mW) | SAR test exclusion Threshold (mW) | SAR Required |
|---------------------------|--------------------------|-----------------------------------|--------------|
| (2.4~2.4835)GHz Bluetooth | 1.35                     | 19                                | No           |
| (2.4~2.4835)GHz WLAN      | 16.44                    | 19                                | No           |

### 6.8 RF exposure conditions

Refer to the follow picture“Antenna Locations & Separation Distances” for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.



### 6.8.1 Head Exposure Conditions

For WWAN,

| Test Configurations | SAR Required | Note |
|---------------------|--------------|------|
| Left Touch          | yes          | /    |
| Left Tilt (15°)     | yes          | /    |
| Right Touch         | yes          | /    |
| Right Tilt (15°)    | yes          | /    |

### 6.8.2 Body-worn Accessory Exposure conditions

For WWAN

| Test Configurations | SAR Required | Note |
|---------------------|--------------|------|
| Rear                | yes          | /    |
| Front               | yes          | /    |

For WiFi

| Test Configurations | SAR Required | Note |
|---------------------|--------------|------|
| Rear                | yes          | /    |
| Front               | yes          | /    |

### 6.8.3 Hotspot Exposure Conditions

For WWAN

| Test Configurations | Antenna-to-edge/surface | SAR Required |
|---------------------|-------------------------|--------------|
| Rear                | <25 mm                  | Yes          |
| Front               | <25 mm                  | Yes          |
| Edge 1              | 135 mm                  | No           |
| Edge 2              | 0 mm                    | Yes          |
| Edge 3              | 25 mm                   | Yes          |
| Edge 4              | 7 mm                    | Yes          |

For Wi-Fi

| Test Configurations | Antenna-to-edge/surface | SAR Required |
|---------------------|-------------------------|--------------|
| Rear                | <25 mm                  | Yes          |
| Front               | <25 mm                  | Yes          |
| Edge 1              | 0 mm                    | Yes          |
| Edge 2              | 124 mm                  | No           |
| Edge 3              | 53 mm                   | No           |
| Edge 4              | 0 mm                    | Yes          |

## 6.9 System Checking

The manufacturer calibrates the probes annully. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system checking results (dielectric parameters and SAR values) are given in the table below.

| Date Tested | System dipole | T.S. Liquid | SAR measured (normalized to 1W) |       | Target (Ref.Value) | Delta (%) | Tolerance (%) |
|-------------|---------------|-------------|---------------------------------|-------|--------------------|-----------|---------------|
| 2017.05.02  | D835V2        | Head        | 1g                              | 9.36  | 9.24               | 1.30      | ±10           |
| 2017.05.02  | D835V2        | Body        | 1g                              | 9.32  | 9.38               | 0.64      | ±10           |
| 2017.05.03  | D1900V2       | Head        | 1g                              | 39.28 | 39.40              | 0.30      | ±10           |
| 2017.05.03  | D1900V2       | Body        | 1g                              | 39.36 | 39.50              | 0.35      | ±10           |
| 2017.05.04  | D2450V2       | Head        | 1g                              | 52.48 | 52.70              | 0.42      | ±10           |
| 2017.05.04  | D2450V2       | Body        | 1g                              | 51.72 | 51.90              | 0.35      | ±10           |

Plots of the system checking scans are given in Appendix A.

### Tissue Simulants used in the Measurements

For the measurement of the following parameters the SPEAG DAKS-3.5 dielectric parameter probe is used, representing the open-ended coaxial probe measurement procedure.

| Date Tested | Freq.(MHz) | Liquid parameters | measured | Target | Delta(%) | Tolerance(%) |
|-------------|------------|-------------------|----------|--------|----------|--------------|
| 2017.05.02  | Head 835   | $\epsilon_r$      | 42.11    | 41.50  | 1.47     | ±5           |
|             |            | $\sigma$ [S/m]    | 0.91     | 0.90   | 1.11     | ±5           |
| 2017.05.02  | Body 835   | $\epsilon_r$      | 53.85    | 55.20  | 2.45     | ±5           |
|             |            | $\sigma$ [S/m]    | 0.98     | 0.97   | 1.03     | ±5           |
| 2017.05.03  | Head 1900  | $\epsilon_r$      | 40.84    | 40.00  | 2.10     | ±5           |
|             |            | $\sigma$ [S/m]    | 1.41     | 1.40   | 0.71     | ±5           |
| 2017.05.03  | Body 1900  | $\epsilon_r$      | 52.18    | 53.30  | 2.10     | ±5           |
|             |            | $\sigma$ [S/m]    | 1.53     | 1.52   | 0.66     | ±5           |
| 2017.05.04  | Head 2450  | $\epsilon_r$      | 39.21    | 39.20  | 0.03     | ±5           |
|             |            | $\sigma$ [S/m]    | 1.79     | 1.80   | 0.56     | ±5           |
| 2017.05.04  | Body 2450  | $\epsilon_r$      | 52.04    | 52.70  | 1.25     | ±5           |
|             |            | $\sigma$ [S/m]    | 1.97     | 1.95   | 1.03     | ±5           |

## 6.10 SAR TEST RESULT

In order to determine the largest value of the peak spatial-average SAR of a handset, all device positions, configurations, and operational modes should be tested for each frequency band according to Steps 1 to 3 below.

Step 1: The tests should be performed at the channel that is closest to the center of the transmit frequency band.

a) All device positions (cheek and tilt, for both left and right sides of the SAM phantom),  
b) All configurations for each device position in a), e.g., antenna extended and retracted, and  
c) All operational modes for each device position in item a) and configuration in item b) in each frequency band, e.g., analog and digital, If more than three frequencies need to be tested (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 the highest peak spatial-average SAR determined in Step 1 for each frequency, perform all tests at all other test frequency channels, e.g., 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 should be tested as well.

Step 3: Examine all data to determine the largest value of the peak.

Note:

1. Per KDB 447498 D01v05, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Reported SAR (W/kg) = Measured SAR (W/kg)\* Scaling Factor

2. Per KDB 447498 D01v05, for each exposure position, if the highest output channel reported SAR  $\leq 0.8$ W/kg, other channels SAR testing are not necessary.

3. In the report the test position "Mobile phone screen Towards Ground" abbreviated as "TG", and "Mobile phone screen Towards Phantom" abbreviated as "TP".

The measured and reported Head/body SAR values for the test device are tabulated below:

**Mode: GSM 850**

fL(MHz)=824.2MHz

fM(MHz)=836.5MHz

fH(MHz)= 848.8MHz

SAR Values ( Head , 850MHz Band )

**Limit of SAR (W/kg) : <1.6W/kg (1g Average)**

| Test Case    |      | Ch    | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|------|-------|-------------------------------|---------------------|----------------|-------------------------|--------------------------|
| position     | mode |       |                               |                     |                | 1g Average              | 1g Average               |
| Left cheek   | GSM  | L     | 32.91                         | 34                  | 1.29           | ---                     | ---                      |
|              |      | M     | 32.94                         | 34                  | 1.28           | 0.076                   | 0.098                    |
|              |      | H     | 32.92                         | 34                  | 1.28           | ---                     | ---                      |
| Left Tilted  |      | L     | 32.91                         | 34                  | 1.29           | ---                     | ---                      |
|              |      | M     | 32.94                         | 34                  | 1.28           | 0.028                   | 0.036                    |
|              |      | H     | 32.92                         | 34                  | 1.28           | ---                     | ---                      |
| Right cheek  |      | L     | 32.91                         | 34                  | 1.29           | ---                     | ---                      |
|              |      | M     | 32.94                         | 34                  | 1.28           | 0.252                   | 0.322                    |
|              |      | H     | 32.92                         | 34                  | 1.28           | ---                     | ---                      |
| Right Tilted | L    | 32.91 | 34                            | 1.29                | ---            | ---                     |                          |
|              | M    | 32.94 | 34                            | 1.28                | 0.128          | 0.163                   |                          |
|              | H    | 32.92 | 34                            | 1.28                | ---            | ---                     |                          |



**Mode: GSM850 (GSM/GPRS)**

fL(MHz)=824.2MHz      fM(MHz)=836.5MHz      fH(MHz)= 848.8MHz

SAR Values ( body , 850MHz Band

**Limit of SAR (W/kg) : <1.6W/kg (1g Average)**

| Test Case      |                  | Ch             | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|----------------|------------------|----------------|-------------------------------|---------------------|----------------|-------------------------|--------------------------|
| position       | mode             |                |                               |                     |                | 1 g Average             | 1g Average               |
| TG             | GSM With headset | L              | 32.91                         | 34                  | 1.29           | ---                     | ---                      |
|                |                  | M              | 32.94                         | 34                  | 1.28           | 0.420                   | 0.536                    |
|                |                  | H              | 32.92                         | 34                  | 1.28           | ---                     | ---                      |
|                | GPRS             | L              | 28.30                         | 29                  | 1.17           | ---                     | ---                      |
|                |                  | M              | 28.17                         | 29                  | 1.21           | 0.783                   | 0.948                    |
|                |                  | H              | 28.11                         | 29                  | 1.23           | ---                     | ---                      |
|                | EGPRS            | L              | 28.30                         | 29                  | 1.17           | ---                     | ---                      |
|                |                  | M              | 28.17                         | 29                  | 1.21           | 0.787                   | 0.953                    |
|                |                  | H              | 28.11                         | 29                  | 1.23           | ---                     | ---                      |
| TP             | GSM With headset | L              | 32.91                         | 34                  | 1.29           | ---                     | ---                      |
|                |                  | M              | 32.94                         | 34                  | 1.28           | 0.367                   | 0.468                    |
|                |                  | H              | 32.92                         | 34                  | 1.28           | ---                     | ---                      |
|                | GPRS             | L              | 28.30                         | 29                  | 1.17           | ---                     | ---                      |
|                |                  | M              | 28.17                         | 29                  | 1.21           | 0.702                   | 0.850                    |
|                |                  | H              | 28.11                         | 29                  | 1.23           | ---                     | ---                      |
|                | EGPRS            | L              | 28.30                         | 29                  | 1.17           | ---                     | ---                      |
|                |                  | M              | 28.17                         | 29                  | 1.21           | 0.705                   | 0.853                    |
|                |                  | H              | 28.11                         | 29                  | 1.23           | ---                     | ---                      |
| Hotspot EDGE 2 | EGPRS            | L              | 28.30                         | 29                  | 1.17           | ---                     | ---                      |
| Hotspot EDGE 3 |                  | M              | 28.17                         | 29                  | 1.21           | 0.382                   | 0.462                    |
|                |                  | H              | 28.11                         | 29                  | 1.23           | ---                     | ---                      |
|                |                  | Hotspot EDGE 4 | L                             | 28.30               | 29             | 1.17                    | ---                      |
| M              |                  |                | 28.17                         | 29                  | 1.21           | 0.709                   | 0.858                    |
| H              |                  |                | 28.11                         | 29                  | 1.23           | ---                     | ---                      |
|                |                  | L              | 28.30                         | 29                  | 1.17           | ---                     | ---                      |
|                |                  | M              | 28.17                         | 29                  | 1.21           | 0.343                   | 0.415                    |
|                |                  | H              | 28.11                         | 29                  | 1.23           | ---                     | ---                      |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: GSM1900**

fL(MHz)=1850.2MHz      fM(MHz)=1880.0MHz      fH(MHz)=1909.8MHz

SAR Values ( Head , 1900MHz Band )

**Limit of SAR (W/kg) : <1.6W/kg(1g Average)**

| Test Case    |      | CH    | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|------|-------|-------------------------------|---------------------|----------------|-------------------------|--------------------------|
| position     | mode |       |                               |                     |                | 1g Average              | 1g Average               |
| Left cheek   | GSM  | L     | 29.97                         | 31                  | 1.27           | ---                     | ---                      |
|              |      | M     | 29.98                         | 31                  | 1.26           | 0.213                   | 0.269                    |
|              |      | H     | 29.91                         | 31                  | 1.29           | ---                     | ---                      |
| Left Tilted  |      | L     | 29.97                         | 31                  | 1.27           | ---                     | ---                      |
|              |      | M     | 29.98                         | 31                  | 1.26           | 0.069                   | 0.087                    |
|              |      | H     | 29.91                         | 31                  | 1.29           | ---                     | ---                      |
| Right cheek  |      | L     | 29.97                         | 31                  | 1.27           | ---                     | ---                      |
|              |      | M     | 29.98                         | 31                  | 1.26           | 0.155                   | 0.196                    |
|              |      | H     | 29.91                         | 31                  | 1.29           | ---                     | ---                      |
| Right Tilted | L    | 29.97 | 31                            | 1.27                | ---            | ---                     |                          |
|              | M    | 29.98 | 31                            | 1.26                | 0.056          | 0.071                   |                          |
|              | H    | 29.91 | 31                            | 1.29                | ---            | ---                     |                          |

**Mode: GSM1900 (GSM/GPRS)**

fL(MHz)=1850.2MHz      fM(MHz)=1880.0MHz      fH(MHz)=1909.8MHz

SAR Values ( body , 1900MHz Band )

**Limit of SAR (W/kg) :<1.6W/kg(1g Average)**

| Test Case      |                  | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |       |
|----------------|------------------|----|-------------------------------|---------------------|----------------|-------------------------|--------------------------|-------|
| position       | mode             |    |                               |                     |                | 1 g Average             | 1g Average               |       |
| TG             | GSM With headset | L  | 29.97                         | 31                  | 1.27           | ---                     | ---                      |       |
|                |                  | M  | 29.98                         | 31                  | 1.26           | 0.523                   | 0.661                    |       |
|                |                  | H  | 29.91                         | 31                  | 1.29           | ---                     | ---                      |       |
|                | GPRS             | L  | 25.00                         | 26                  | 1.26           | ---                     | ---                      |       |
|                |                  | M  | 25.01                         | 26                  | 1.26           | 0.757                   | 0.951                    |       |
|                |                  | H  | 24.99                         | 26                  | 1.26           | ---                     | ---                      |       |
|                | EGPRS            | L  | 25.00                         | 26                  | 1.26           | ---                     | ---                      |       |
|                |                  | M  | 25.01                         | 26                  | 1.26           | 0.781                   | 0.981                    |       |
|                |                  | H  | 24.99                         | 26                  | 1.26           | ---                     | ---                      |       |
| TP             | GSM With headset | L  | 29.97                         | 31                  | 1.27           | ---                     | ---                      |       |
|                |                  | M  | 29.98                         | 31                  | 1.26           | 0.213                   | 0.269                    |       |
|                |                  | H  | 29.91                         | 31                  | 1.29           | ---                     | ---                      |       |
|                | GPRS             | L  | 25.00                         | 26                  | 1.26           | ---                     | ---                      |       |
|                |                  | M  | 25.01                         | 26                  | 1.26           | 0.418                   | 0.525                    |       |
|                |                  | H  | 24.99                         | 26                  | 1.26           | ---                     | ---                      |       |
|                | EGPRS            | L  | 25.00                         | 26                  | 1.26           | ---                     | ---                      |       |
|                |                  | M  | 25.01                         | 26                  | 1.26           | 0.488                   | 0.613                    |       |
|                |                  | H  | 24.99                         | 26                  | 1.26           | ---                     | ---                      |       |
| Hotspot EDGE 2 | EGPRS            | L  | 25.00                         | 26                  | 1.26           | ---                     | ---                      |       |
| Hotspot EDGE 3 |                  | M  | 25.01                         | 26                  | 1.26           | 0.453                   | 0.569                    |       |
|                |                  | H  | 24.99                         | 26                  | 1.26           | ---                     | ---                      |       |
|                |                  | L  | 25.00                         | 26                  | 1.26           | ---                     | ---                      |       |
| Hotspot EDGE 4 |                  | M  | 25.01                         | 26                  | 1.26           | 0.116                   | 0.146                    |       |
|                |                  | H  | 24.99                         | 26                  | 1.26           | ---                     | ---                      |       |
|                |                  | L  | 25.00                         | 26                  | 1.26           | ---                     | ---                      |       |
|                |                  |    | M                             | 25.01               | 26             | 1.26                    | 0.168                    | 0.211 |
|                |                  |    | H                             | 24.99               | 26             | 1.26                    | ---                      | ---   |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: WCDMA BAND2**

fL(MHz)=1852.4MHz      fM(MHz)=1880MHz      fH(MHz)= 1907.6MHz

SAR Values (Head, WCDMA BAND2)

**Limit of SAR (W/kg):<1.6W/kg(1g Average)**

| Test Case    |       | CH    | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-------|-------|-------------------------------|---------------------|----------------|-------------------------|--------------------------|
| position     | mode  |       |                               |                     |                | 1 g Average             | 1g Average               |
| Left cheek   | VOICE | L     | 22.62                         | 24                  | 1.37           | ---                     | ---                      |
|              |       | M     | 22.65                         | 24                  | 1.36           | 0.372                   | 0.508                    |
|              |       | H     | 22.61                         | 24                  | 1.38           | ---                     | ---                      |
| Left Tilted  |       | L     | 22.62                         | 24                  | 1.37           | ---                     | ---                      |
|              |       | M     | 22.65                         | 24                  | 1.36           | 0.126                   | 0.172                    |
|              |       | H     | 22.61                         | 24                  | 1.38           | ---                     | ---                      |
| Right cheek  |       | L     | 22.62                         | 24                  | 1.37           | ---                     | ---                      |
|              |       | M     | 22.65                         | 24                  | 1.36           | 0.250                   | 0.341                    |
|              |       | H     | 22.61                         | 24                  | 1.38           | ---                     | ---                      |
| Right Tilted | L     | 22.62 | 24                            | 1.37                | ---            | ---                     |                          |
|              | M     | 22.65 | 24                            | 1.36                | 0.087          | 0.118                   |                          |
|              | H     | 22.61 | 24                            | 1.38                | ---            | ---                     |                          |

**Mode: WCDMA BAND2**

fL(MHz)=1852.4MHz      fM(MHz)=1880MHz      fH(MHz)= 1907.6MHz

SAR Values (body, WCDMA BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case     |       | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|---------------|-------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position      | mode  |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG            | VOICE | L  | 22.62                         | 24                  | 1.37           | ---                    | ---                     |
|               |       | M  | 22.65                         | 24                  | 1.36           | 0.572                  | 0.781                   |
|               |       | H  | 22.61                         | 24                  | 1.38           | ---                    | ---                     |
|               | DATA  | L  | 22.62                         | 24                  | 1.37           | ---                    | ---                     |
|               |       | M  | 22.65                         | 24                  | 1.36           | 0.568                  | 0.775                   |
|               |       | H  | 22.61                         | 24                  | 1.38           | ---                    | ---                     |
| TP            | VOICE | L  | 22.62                         | 24                  | 1.37           | ---                    | ---                     |
|               |       | M  | 22.65                         | 24                  | 1.36           | 0.454                  | 0.620                   |
|               |       | H  | 22.61                         | 24                  | 1.38           | ---                    | ---                     |
|               | DATA  | L  | 22.62                         | 24                  | 1.37           | ---                    | ---                     |
|               |       | M  | 22.65                         | 24                  | 1.36           | 0.418                  | 0.570                   |
|               |       | H  | 22.61                         | 24                  | 1.38           | ---                    | ---                     |
| Hotspot EDGE2 | DATA  | L  | 22.62                         | 24                  | 1.37           | ---                    | ---                     |
|               |       | M  | 22.65                         | 24                  | 1.36           | 0.541                  | 0.738                   |
|               |       | H  | 22.61                         | 24                  | 1.38           | ---                    | ---                     |
| Hotspot EDGE3 | DATA  | L  | 22.62                         | 24                  | 1.37           | ---                    | ---                     |
|               |       | M  | 22.65                         | 24                  | 1.36           | 0.080                  | 0.109                   |
|               |       | H  | 22.61                         | 24                  | 1.38           | ---                    | ---                     |
| Hotspot EDGE4 | DATA  | L  | 22.62                         | 24                  | 1.37           | ---                    | ---                     |
|               |       | M  | 22.65                         | 24                  | 1.36           | 0.382                  | 0.521                   |
|               |       | H  | 22.61                         | 24                  | 1.38           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: WCDMA BAND4**

fL(MHz)=1712.4MHz      fM(MHz)=1732.4MHz      fH(MHz)= 1752.6MHz

SAR Values (Head, WCDMA BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |       | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode  |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | VOICE | L     | 22.38                         | 24                 | 1.45           | ---                     | ---                      |
|              |       | M     | 22.41                         | 24                 | 1.44           | 0.353                   | 0.509                    |
|              |       | H     | 22.37                         | 24                 | 1.46           | ---                     | ---                      |
| Left Tilted  |       | L     | 22.38                         | 24                 | 1.45           | ---                     | ---                      |
|              |       | M     | 22.41                         | 24                 | 1.44           | 0.200                   | 0.288                    |
|              |       | H     | 22.37                         | 24                 | 1.46           | ---                     | ---                      |
| Right cheek  |       | L     | 22.38                         | 24                 | 1.45           | ---                     | ---                      |
|              |       | M     | 22.41                         | 24                 | 1.44           | 0.246                   | 0.355                    |
|              |       | H     | 22.37                         | 24                 | 1.46           | ---                     | ---                      |
| Right Tilted | L     | 22.38 | 24                            | 1.45               | ---            | ---                     |                          |
|              | M     | 22.41 | 24                            | 1.44               | 0.170          | 0.245                   |                          |
|              | H     | 22.37 | 24                            | 1.46               | ---            | ---                     |                          |

**Mode: WCDMA BAND4**

fL(MHz)=1712.4MHz      fM(MHz)=1732.4MHz      fH(MHz)= 1752.6MHz

SAR Values (body, WCDMA BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case     |       | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|---------------|-------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position      | mode  |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG            | VOICE | L  | 22.38                         | 24                  | 1.45           | ---                    | ---                     |
|               |       | M  | 22.41                         | 24                  | 1.44           | 0.662                  | 0.955                   |
|               |       | H  | 22.37                         | 24                  | 1.46           | ---                    | ---                     |
|               | DATA  | L  | 22.38                         | 24                  | 1.45           | ---                    | ---                     |
|               |       | M  | 22.41                         | 24                  | 1.44           | 0.702                  | 1.012                   |
|               |       | H  | 22.37                         | 24                  | 1.46           | ---                    | ---                     |
| TP            | VOICE | L  | 22.38                         | 24                  | 1.45           | ---                    | ---                     |
|               |       | M  | 22.41                         | 24                  | 1.44           | 0.380                  | 0.548                   |
|               |       | H  | 22.37                         | 24                  | 1.46           | ---                    | ---                     |
|               | DATA  | L  | 22.38                         | 24                  | 1.45           | ---                    | ---                     |
|               |       | M  | 22.41                         | 24                  | 1.44           | 0.402                  | 0.580                   |
|               |       | H  | 22.37                         | 24                  | 1.46           | ---                    | ---                     |
| Hotspot EDGE2 | DATA  | L  | 22.38                         | 24                  | 1.45           | ---                    | ---                     |
|               |       | M  | 22.41                         | 24                  | 1.44           | 0.373                  | 0.538                   |
|               |       | H  | 22.37                         | 24                  | 1.46           | ---                    | 0.000                   |
| Hotspot EDGE3 | DATA  | L  | 22.38                         | 24                  | 1.45           | ---                    | 0.000                   |
|               |       | M  | 22.41                         | 24                  | 1.44           | 0.130                  | 0.187                   |
|               |       | H  | 22.37                         | 24                  | 1.46           | ---                    | 0.000                   |
| Hotspot EDGE4 | DATA  | L  | 22.38                         | 24                  | 1.45           | ---                    | 0.000                   |
|               |       | M  | 22.41                         | 24                  | 1.44           | 0.186                  | 0.268                   |
|               |       | H  | 22.37                         | 24                  | 1.46           | ---                    | 0.000                   |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: WCDMA BAND5**

fL(MHz)=826.4MHz fM(MHz)=836.6MHz fH(MHz)= 846.6MHz

SAR Values (Head, WCDMA BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |       | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode  |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | VOCIE | L     | 22.48                         | 24                 | 1.42           | ---                     | ---                      |
|              |       | M     | 22.56                         | 24                 | 1.39           | 0.135                   | 0.188                    |
|              |       | H     | 22.55                         | 24                 | 1.40           | ---                     | ---                      |
| Left Tilted  |       | L     | 22.48                         | 24                 | 1.42           | ---                     | ---                      |
|              |       | M     | 22.56                         | 24                 | 1.39           | 0.065                   | 0.091                    |
|              |       | H     | 22.55                         | 24                 | 1.40           | ---                     | ---                      |
| Right cheek  |       | L     | 22.48                         | 24                 | 1.42           | ---                     | ---                      |
|              |       | M     | 22.56                         | 24                 | 1.39           | 0.141                   | 0.196                    |
|              |       | H     | 22.55                         | 24                 | 1.40           | ---                     | ---                      |
| Right Tilted | L     | 22.48 | 24                            | 1.42               | ---            | ---                     |                          |
|              | M     | 22.56 | 24                            | 1.39               | 0.098          | 0.137                   |                          |
|              | H     | 22.55 | 24                            | 1.40               | ---            | ---                     |                          |



**Mode: WCDMA BAND5**

fL(MHz)=826.4MHz      fM(MHz)=836.6MHz      fH(MHz)= 846.6MHz

SAR Values (body, WCDMA BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case     |       | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|---------------|-------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position      | mode  |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG            | VOICE | L  | 22.48                         | 24                  | 1.42           | ---                    | ---                     |
|               |       | M  | 22.56                         | 24                  | 1.39           | 0.336                  | 0.468                   |
|               |       | H  | 22.55                         | 24                  | 1.40           | ---                    | ---                     |
|               | DATA  | L  | 22.48                         | 24                  | 1.42           | ---                    | ---                     |
|               |       | M  | 22.56                         | 24                  | 1.39           | 0.335                  | 0.467                   |
|               |       | H  | 22.55                         | 24                  | 1.40           | ---                    | ---                     |
| TP            | VOICE | L  | 22.48                         | 24                  | 1.42           | ---                    | ---                     |
|               |       | M  | 22.56                         | 24                  | 1.39           | 0.280                  | 0.390                   |
|               |       | H  | 22.55                         | 24                  | 1.40           | ---                    | ---                     |
|               | DATA  | L  | 22.48                         | 24                  | 1.42           | ---                    | ---                     |
|               |       | M  | 22.56                         | 24                  | 1.39           | 0.330                  | 0.460                   |
|               |       | H  | 22.55                         | 24                  | 1.40           | ---                    | ---                     |
| Hotspot EDGE2 | DATA  | L  | 22.48                         | 24                  | 1.42           | ---                    | ---                     |
|               |       | M  | 22.56                         | 24                  | 1.39           | 0.011                  | 0.016                   |
|               |       | H  | 22.55                         | 24                  | 1.40           | ---                    | ---                     |
| Hotspot EDGE3 | DATA  | L  | 22.48                         | 24                  | 1.42           | ---                    | ---                     |
|               |       | M  | 22.56                         | 24                  | 1.39           | 0.114                  | 0.159                   |
|               |       | H  | 22.55                         | 24                  | 1.40           | ---                    | ---                     |
| Hotspot EDGE4 | DATA  | L  | 22.48                         | 24                  | 1.42           | ---                    | ---                     |
|               |       | M  | 22.56                         | 24                  | 1.39           | 0.107                  | 0.149                   |
|               |       | H  | 22.55                         | 24                  | 1.40           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND2- 20BW-1RB**

fL(MHz)=1860MHz fM(MHz)=1880MHz fH(MHz)= 1900MHz

SAR Values (Head, LTE BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |           | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-----------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode      |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | 20 BW 1RB | L     | 22.50                         | 23                 | 1.12           | 0.327                   | 0.367                    |
|              |           | M     | 22.80                         | 23                 | 1.05           | 0.443                   | 0.464                    |
|              |           | H     | 22.20                         | 23                 | 1.20           | 0.333                   | 0.400                    |
| Left Tilted  |           | L     | 22.50                         | 23                 | 1.12           | ---                     | ---                      |
|              |           | M     | 22.80                         | 23                 | 1.05           | 0.107                   | 0.112                    |
|              |           | H     | 22.20                         | 23                 | 1.20           | ---                     | ---                      |
| Right cheek  |           | L     | 22.50                         | 23                 | 1.12           | ---                     | ---                      |
|              |           | M     | 22.80                         | 23                 | 1.05           | 0.189                   | 0.198                    |
|              |           | H     | 22.20                         | 23                 | 1.20           | ---                     | ---                      |
| Right Tilted | L         | 22.50 | 23                            | 1.12               | ---            | ---                     |                          |
|              | M         | 22.80 | 23                            | 1.05               | 0.075          | 0.079                   |                          |
|              | H         | 22.20 | 23                            | 1.20               | ---            | ---                     |                          |

**Mode: LTE BAND2- 20BW-1RB**

fL(MHz)=1860MHz fM(MHz)=1880MHz fH(MHz)= 1900MHz

SAR Values (body, LTE BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case      |           | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|-----------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position       | mode      |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG             | 20 BW 1RB | L  | 22.50                         | 23                  | 1.12           | 0.708                  | 0.794                   |
|                |           | M  | 22.80                         | 23                  | 1.05           | 0.795                  | 0.832                   |
|                |           | H  | 22.20                         | 23                  | 1.20           | 0.777                  | 0.934                   |
| TP             | 20 BW 1RB | L  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |           | M  | 22.80                         | 23                  | 1.05           | 0.472                  | 0.494                   |
|                |           | H  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |
| Hotspot EDGE 2 | 20 BW 1RB | L  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |           | M  | 22.80                         | 23                  | 1.05           | 0.378                  | 0.396                   |
|                |           | H  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |
| Hotspot EDGE 3 |           | L  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |           | M  | 22.80                         | 23                  | 1.05           | 0.043                  | 0.045                   |
|                |           | H  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |
| Hotspot EDGE 4 |           | L  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |           | M  | 22.80                         | 23                  | 1.05           | 0.301                  | 0.315                   |
|                |           | H  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND2- 20BW-50%RB**

fL(MHz)=1860MHz fM(MHz)=1880MHz fH(MHz)= 1900MHz

SAR Values (Head, LTE BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |             | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-------------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode        |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | 20 BW 50%RB | L     | 22.20                         | 23                 | 1.20           | ---                     | ---                      |
|              |             | M     | 22.50                         | 23                 | 1.12           | 0.397                   | 0.445                    |
|              |             | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Left Tilted  |             | L     | 22.20                         | 23                 | 1.20           | ---                     | ---                      |
|              |             | M     | 22.50                         | 23                 | 1.12           | 0.096                   | 0.108                    |
|              |             | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Right cheek  |             | L     | 22.20                         | 23                 | 1.20           | ---                     | ---                      |
|              |             | M     | 22.50                         | 23                 | 1.12           | 0.147                   | 0.165                    |
|              |             | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Right Tilted | L           | 22.20 | 23                            | 1.20               | ---            | ---                     |                          |
|              | M           | 22.50 | 23                            | 1.12               | 0.067          | 0.075                   |                          |
|              | H           | 22.00 | 23                            | 1.26               | ---            | ---                     |                          |

**Mode: LTE BAND2- 20BW-50%RB**

fL(MHz)=1860MHz fM(MHz)=1880MHz fH(MHz)= 1900MHz

SAR Values (body, LTE BAND2)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case      |             | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|-------------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position       | mode        |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG             | 20 BW 50%RB | L  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | 0.646                  | 0.725                   |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| TP             | 20 BW 50%RB | L  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | 0.382                  | 0.429                   |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 2 | 20 BW 50%RB | L  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 3 |             | L  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 4 |             | L  | 22.20                         | 23                  | 1.20           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND4- 20BW-1RB**

fL(MHz)=1720.0MHz fM(MHz)=1732.5MHz fH(MHz)= 1745.0Mhz

SAR Values (Head, LTE BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |          | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|----------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode     |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | 20BW 1RB | L     | 21.80                         | 1.20               | 1.32           | ---                     | ---                      |
|              |          | M     | 22.00                         | 1.00               | 1.26           | 0.343                   | 0.432                    |
|              |          | H     | 21.50                         | 1.50               | 1.41           | ---                     | ---                      |
| Left Tilted  |          | L     | 21.80                         | 1.20               | 1.32           | ---                     | ---                      |
|              |          | M     | 22.00                         | 1.00               | 1.26           | 0.169                   | 0.213                    |
|              |          | H     | 21.50                         | 1.50               | 1.41           | ---                     | ---                      |
| Right cheek  |          | L     | 21.80                         | 1.20               | 1.32           | ---                     | ---                      |
|              |          | M     | 22.00                         | 1.00               | 1.26           | 0.170                   | 0.214                    |
|              |          | H     | 21.50                         | 1.50               | 1.41           | ---                     | ---                      |
| Right Tilted | L        | 21.80 | 1.20                          | 1.32               | ---            | ---                     |                          |
|              | M        | 22.00 | 1.00                          | 1.26               | 0.138          | 0.174                   |                          |
|              | H        | 21.50 | 1.50                          | 1.41               | ---            | ---                     |                          |

**Mode: LTE BAND4- 20BW-1RB**

fL(MHz)=1720.0MHz      fM(MHz)=1732.5MHz      fH(MHz)= 1745.0MHz

SAR Values (body, LTE BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case      |           | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|-----------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position       | mode      |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG             | 20 BW 1RB | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |           | M  | 22.00                         | 1.00                | 1.26           | 0.200                  | 0.252                   |
|                |           | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |
| TP             | 20 BW 1RB | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |           | M  | 22.00                         | 1.00                | 1.26           | 0.340                  | 0.428                   |
|                |           | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |
| Hotspot EDGE 2 | 20 BW 1RB | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |           | M  | 22.00                         | 1.00                | 1.26           | ---                    | ---                     |
|                |           | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |
| Hotspot EDGE 3 |           | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |           | M  | 22.00                         | 1.00                | 1.26           | ---                    | ---                     |
|                |           | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |
| Hotspot EDGE 4 |           | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |           | M  | 22.00                         | 1.00                | 1.26           | ---                    | ---                     |
|                |           | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND4- 20BW-50%RB**

fL(MHz)=1720 MHz    fM(MHz)=1732.5MHz    fH(MHz)= 1745MHz

SAR Values (Head, LTE BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |             | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-------------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode        |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | 20 BW 50%RB | L     | 21.80                         | 1.20               | 1.32           | ---                     | ---                      |
|              |             | M     | 22.00                         | 1.00               | 1.26           | 0.280                   | 0.352                    |
|              |             | H     | 21.50                         | 1.50               | 1.41           | ---                     | ---                      |
| Left Tilted  |             | L     | 21.80                         | 1.20               | 1.32           | ---                     | ---                      |
|              |             | M     | 22.00                         | 1.00               | 1.26           | 0.136                   | 0.171                    |
|              |             | H     | 21.50                         | 1.50               | 1.41           | ---                     | ---                      |
| Right cheek  |             | L     | 21.80                         | 1.20               | 1.32           | ---                     | ---                      |
|              |             | M     | 22.00                         | 1.00               | 1.26           | 0.148                   | 0.186                    |
|              |             | H     | 21.50                         | 1.50               | 1.41           | ---                     | ---                      |
| Right Tilted | L           | 21.80 | 1.20                          | 1.32               | ---            | ---                     |                          |
|              | M           | 22.00 | 1.00                          | 1.26               | 0.118          | 0.149                   |                          |
|              | H           | 21.50 | 1.50                          | 1.41               | ---            | ---                     |                          |



**Mode: LTE BAND4- 20BW-50%RB**

fL(MHz)=1720 MHz fM(MHz)=1732.5MHz fH(MHz)= 1745MHz

SAR Values (body, LTE BAND4)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

Note: The distance between the EUT and the phantom bottom is 10mm.

| Test Case      |             | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|-------------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position       | mode        |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG             | 20 BW 50%RB | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |             | M  | 22.00                         | 1.00                | 1.26           | 0.419                  | 0.527                   |
|                |             | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |
| TP             | 20 BW 50%RB | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |             | M  | 22.00                         | 1.00                | 1.26           | 0.272                  | 0.342                   |
|                |             | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |
| Hotspot EDGE 2 | 20 BW 50%RB | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |             | M  | 22.00                         | 1.00                | 1.26           | 0.311                  | 0.392                   |
|                |             | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |
| Hotspot EDGE 3 |             | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |             | M  | 22.00                         | 1.00                | 1.26           | 0.116                  | 0.146                   |
|                |             | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |
| Hotspot EDGE 4 |             | L  | 21.80                         | 1.20                | 1.32           | ---                    | ---                     |
|                |             | M  | 22.00                         | 1.00                | 1.26           | 0.153                  | 0.193                   |
|                |             | H  | 21.50                         | 1.50                | 1.41           | ---                    | ---                     |

**Mode: LTE BAND5- 10BW-1RB**

fL(MHz)=829 MHz      fM(MHz)=836.5MHz      fH(MHz)= 844MHz

SAR Values (Head, LTE BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |           | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-----------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode      |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | 10 BW 1RB | L     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
|              |           | M     | 22.20                         | 23                 | 1.20           | 0.102                   | 0.123                    |
|              |           | H     | 21.80                         | 23                 | 1.32           | ---                     | ---                      |
| Left Tilted  |           | L     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
|              |           | M     | 22.20                         | 23                 | 1.20           | 0.069                   | 0.083                    |
|              |           | H     | 21.80                         | 23                 | 1.32           | ---                     | ---                      |
| Right cheek  |           | L     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
|              |           | M     | 22.20                         | 23                 | 1.20           | 0.129                   | 0.155                    |
|              |           | H     | 21.80                         | 23                 | 1.32           | ---                     | ---                      |
| Right Tilted | L         | 22.00 | 23                            | 1.26               | ---            | ---                     |                          |
|              | M         | 22.20 | 23                            | 1.20               | 0.074          | 0.088                   |                          |
|              | H         | 21.80 | 23                            | 1.32               | ---            | ---                     |                          |

**Mode: LTE BAND5- 10BW-1RB**

fL(MHz)=829 MHz      fM(MHz)=836.5MHz      fH(MHz)= 844MHz

SAR Values (Head, LTE BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case      |           | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|-----------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position       | mode      |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG             | 10 BW 1RB | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |           | M  | 22.20                         | 23                  | 1.20           | 0.258                  | 0.310                   |
|                |           | H  | 21.80                         | 23                  | 1.32           | ---                    | ---                     |
| TP             | 10 BW 1RB | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |           | M  | 22.20                         | 23                  | 1.20           | 0.167                  | 0.201                   |
|                |           | H  | 21.80                         | 23                  | 1.32           | ---                    | ---                     |
| Hotspot EDGE 2 | 10 BW 1RB | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |           | M  | 22.20                         | 23                  | 1.20           | 0.125                  | 0.150                   |
|                |           | H  | 21.80                         | 23                  | 1.32           | ---                    | ---                     |
| Hotspot EDGE 3 |           | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |           | M  | 22.20                         | 23                  | 1.20           | 0.293                  | 0.352                   |
|                |           | H  | 21.80                         | 23                  | 1.32           | ---                    | ---                     |
| Hotspot EDGE 4 |           | L  | 22.00                         | 23                  | 1.26           | ---                    | 0.000                   |
|                |           | M  | 22.20                         | 23                  | 1.20           | 0.062                  | 0.075                   |
|                |           | H  | 21.80                         | 23                  | 1.32           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND5- 10BW-50%RB**

fL(MHz)=829 MHz      fM(MHz)=836.5MHz      fH(MHz)= 844MHz

SAR Values (Head, LTE BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |                | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|----------------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode           |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | 10 BW<br>50%RB | L     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
|              |                | M     | 22.30                         | 23                 | 1.17           | 0.102                   | 0.120                    |
|              |                | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Left Tilted  |                | L     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
|              |                | M     | 22.30                         | 23                 | 1.17           | 0.059                   | 0.069                    |
|              |                | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Right cheek  |                | L     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
|              |                | M     | 22.30                         | 23                 | 1.17           | 0.099                   | 0.116                    |
|              |                | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Right Tilted | L              | 22.00 | 23                            | 1.26               | ---            | ---                     |                          |
|              | M              | 22.30 | 23                            | 1.17               | 0.054          | 0.064                   |                          |
|              | H              | 22.00 | 23                            | 1.26               | ---            | ---                     |                          |

**Mode: LTE BAND5- 10BW-50%RB**

fL(MHz)=829 MHz      fM(MHz)=836.5MHz      fH(MHz)= 844MHz

SAR Values (Head, LTE BAND5)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case      |             | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|-------------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position       | mode        |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG             | 10 BW 50%RB | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |             | M  | 22.30                         | 23                  | 1.17           | 0.174                  | 0.204                   |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| TP             | 10 BW 50%RB | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |             | M  | 22.30                         | 23                  | 1.17           | 0.145                  | 0.170                   |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 2 | 10 BW 50%RB | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |             | M  | 22.30                         | 23                  | 1.17           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 3 |             | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |             | M  | 22.30                         | 23                  | 1.17           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 4 |             | L  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
|                |             | M  | 22.30                         | 23                  | 1.17           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND7- 20BW-1RB**

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)= 2560MHz

SAR Values (Head, LTE BAND7)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |           | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-----------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode      |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | 20 BW 1RB | L     | 21.60                         | 23                 | 1.38           | ---                     | ---                      |
|              |           | M     | 22.40                         | 23                 | 1.15           | 0.064                   | 0.073                    |
|              |           | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Left Tilted  |           | L     | 21.60                         | 23                 | 1.38           | ---                     | ---                      |
|              |           | M     | 22.40                         | 23                 | 1.15           | 0.027                   | 0.031                    |
|              |           | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Right cheek  |           | L     | 21.60                         | 23                 | 1.38           | ---                     | ---                      |
|              |           | M     | 22.40                         | 23                 | 1.15           | 0.034                   | 0.039                    |
|              |           | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Right Tilted | L         | 21.60 | 23                            | 1.38               | ---            | ---                     |                          |
|              | M         | 22.40 | 23                            | 1.15               | 0.030          | 0.034                   |                          |
|              | H         | 22.00 | 23                            | 1.26               | ---            | ---                     |                          |

**Mode: LTE BAND7- 20BW-1RB**

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)= 2560MHz

SAR Values (body, LTE BAND7)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case      |            | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|------------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position       | mode       |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG             | 20 BW 1RB  | L  | 21.60                         | 23                  | 1.38           | ---                    | ---                     |
|                |            | M  | 22.40                         | 23                  | 1.15           | 0.740                  | 0.850                   |
|                |            | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| TP             | 20 BW 1 RB | L  | 21.60                         | 23                  | 1.38           | ---                    | ---                     |
|                |            | M  | 22.40                         | 23                  | 1.15           | 0.322                  | 0.370                   |
|                |            | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 2 | 20 BW 1RB  | L  | 21.60                         | 23                  | 1.38           | ---                    | ---                     |
|                |            | M  | 22.40                         | 23                  | 1.15           | 0.523                  | 0.600                   |
|                |            | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 3 |            | L  | 21.60                         | 23                  | 1.38           | ---                    | ---                     |
|                |            | M  | 22.40                         | 23                  | 1.15           | 0.050                  | 0.057                   |
|                |            | H  | 22.00                         | 23                  | 1.26           | ---                    | 0.000                   |
| Hotspot EDGE 4 |            | L  | 21.60                         | 23                  | 1.38           | ---                    | ---                     |
|                |            | M  | 22.40                         | 23                  | 1.15           | 0.019                  | 0.021                   |
|                |            | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Mode: LTE BAND7- 20BW-50%RB**

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)= 2560MHz

SAR Values (Head, LTE BAND7)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case    |             | CH    | Measure Conducted Power (dBm) | Tune-uplimit (dBm) | Scaling Factor | Measure Results ( W/kg) | Reported Results ( W/kg) |
|--------------|-------------|-------|-------------------------------|--------------------|----------------|-------------------------|--------------------------|
| Position     | mode        |       |                               |                    |                | 1 g Average             | 1g Average               |
| Left cheek   | 20 BW 50%RB | L     | 21.40                         | 23                 | 1.45           | ---                     | ---                      |
|              |             | M     | 22.50                         | 23                 | 1.12           | 0.057                   | 0.064                    |
|              |             | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Left Tilted  |             | L     | 21.40                         | 23                 | 1.45           | ---                     | ---                      |
|              |             | M     | 22.50                         | 23                 | 1.12           | 0.020                   | 0.022                    |
|              |             | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Right cheek  |             | L     | 21.40                         | 23                 | 1.45           | ---                     | ---                      |
|              |             | M     | 22.50                         | 23                 | 1.12           | 0.029                   | 0.033                    |
|              |             | H     | 22.00                         | 23                 | 1.26           | ---                     | ---                      |
| Right Tilted | L           | 21.40 | 23                            | 1.45               | ---            | ---                     |                          |
|              | M           | 22.50 | 23                            | 1.12               | 0.035          | 0.039                   |                          |
|              | H           | 22.00 | 23                            | 1.26               | ---            | ---                     |                          |



**Mode: LTE BAND7- 20BW-50%RB**

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)= 2560MHz

SAR Values (body, LTE BAND7)

**Limit of SAR (W/kg): <1.6W/kg(1g Average)**

| Test Case      |             | CH | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|-------------|----|-------------------------------|---------------------|----------------|------------------------|-------------------------|
| Position       | mode        |    |                               |                     |                | 1 g Average            | 1g Average              |
| TG             | 20 BW 50%RB | L  | 21.40                         | 23                  | 1.45           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | 0.613                  | 0.688                   |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| TP             | 20 BW 50%RB | L  | 21.40                         | 23                  | 1.45           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | 0.270                  | 0.303                   |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 2 | 20 BW 50%RB | L  | 21.40                         | 23                  | 1.45           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 3 |             | L  | 21.40                         | 23                  | 1.45           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |
| Hotspot EDGE 4 |             | L  | 21.40                         | 23                  | 1.45           | ---                    | ---                     |
|                |             | M  | 22.50                         | 23                  | 1.12           | ---                    | ---                     |
|                |             | H  | 22.00                         | 23                  | 1.26           | ---                    | ---                     |

Note: The distance between the EUT and the phantom bottom is 10mm.

## 6.11 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  $> 1.20$ .

### 6.11.1 The Highest Measured SAR configuration in Each Frequency Band

| Frequency band(MHz) | Air interface                       | Head(w/kg) | Body(w/kg) |
|---------------------|-------------------------------------|------------|------------|
| 850                 | GSM850<br>WCDMA BAND5<br>LTE BAND5  | $<0.8$     | $<0.8$     |
| 1700                | WCDMA BAND4<br>LTE BAND4            | $<0.8$     | $<0.8$     |
| 1900                | GSM1900<br>WCDMA BAND2<br>LTE BAND2 | $<0.8$     | $<0.8$     |
| 2450                | WiFi 802.11b/g/n<br>LTE BAND7       | $<0.8$     | $<0.8$     |

## 6.12 Simultaneous Transmission SAR Analysis

### The sum of SAR values for GSM & WiFi

|             | MAXIMUM SAR VALUE FOR HEAD     | MAXIMUM SAR VALUE FOR BODY |
|-------------|--------------------------------|----------------------------|
| <b>GSM</b>  | 0.322                          | 0.981                      |
| <b>WiFi</b> | 0.417                          | 0.417                      |
| <b>Sum</b>  | <b>0.739</b>                   | <b>1.398</b>               |
| <b>Note</b> | <b>GSM850+WIFI RIGHT cheek</b> | <b>EGPRS1900+WIFI TG</b>   |

According to the above tables, the sum of SAR values for GSM and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

### The sum of SAR values for WCDMA & WiFi

|              | MAXIMUM SAR VALUE FOR HEAD         | MAXIMUM SAR VALUE FOR BODY |
|--------------|------------------------------------|----------------------------|
| <b>WCDMA</b> | 0.509                              | 1.012                      |
| <b>WiFi</b>  | 0.417                              | 0.417                      |
| <b>Sum</b>   | <b>0.926</b>                       | <b>1.429</b>               |
| <b>Note</b>  | <b>WCDMA BAND4+WIFI Left cheek</b> | <b>WCDMA BAND4+WIFI TG</b> |

According to the above tables, the sum of SAR values for GSM and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

### The sum of SAR values for LTE & WiFi

|             | MAXIMUM SAR VALUE FOR HEAD       | MAXIMUM SAR VALUE FOR BODY |
|-------------|----------------------------------|----------------------------|
| <b>LTE</b>  | 0.464                            | 0.934                      |
| <b>WiFi</b> | 0.417                            | 0.417                      |
| <b>Sum</b>  | 0.881                            | <b>1.351</b>               |
| <b>Note</b> | <b>LTE BAND2+WIFI Left cheek</b> | <b>LTE BAND2+WIFI TG</b>   |

According to the above tables, the sum of SAR values for LTE and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

According to the formula (KDB447498 4.3.2) the Bluetooth SAR as follow:  

$$\frac{[(\text{max.power of channel, including tune-up tolerance,mw})/(\text{min.test separation distance,mm})]}{[\sqrt{f(\text{GHz})/x}]} \text{ W/kg for test separation distances} \leq 50\text{mm.}$$

Head:

min. test separation distance = 5mm

Body:

min. test separation distance = 10mm

Where  $x=7.5$  for 1-g SAR, and  $x=18.75$  for 10-g SAR.

#### The sum of SAR values for GSM & Bluetooth

|                  | MAXIMUM SAR VALUE FOR HEAD   | MAXIMUM SAR VALUE FOR BODY |
|------------------|------------------------------|----------------------------|
| <b>GSM</b>       | 0.322                        | 0.981                      |
| <b>Bluetooth</b> | 0.033                        | 0.033                      |
| <b>Sum</b>       | <b>0.355</b>                 | <b>1.014</b>               |
| <b>Note</b>      | <b>GSM850+BT Right cheek</b> | <b>GSM1900+BT TG</b>       |

According to the above tables, the sum of SAR values for GSM and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

#### The sum of SAR values for WCDMA & Bluetooth

|                  | MAXIMUM SAR VALUE FOR HEAD         | MAXIMUM SAR VALUE FOR BODY |
|------------------|------------------------------------|----------------------------|
| <b>WCDMA</b>     | 0.509                              | 1.012                      |
| <b>Bluetooth</b> | 0.033                              | 0.033                      |
| <b>Sum</b>       | <b>0.542</b>                       | <b>1.045</b>               |
| <b>Note</b>      | <b>WCDMA BAND4+WIFI Left cheek</b> | <b>WCDMA BAND4+WIFI TG</b> |

According to the above tables, the sum of SAR values for GSM and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

#### The sum of SAR values for LTE & Bluetooth

|                  | MAXIMUM SAR VALUE FOR HEAD       | MAXIMUM SAR VALUE FOR BODY |
|------------------|----------------------------------|----------------------------|
| <b>LTE</b>       | 0.464                            | 0.934                      |
| <b>Bluetooth</b> | 0.033                            | 0.033                      |
| <b>Sum</b>       | <b>0.497</b>                     | <b>0.967</b>               |
| <b>Note</b>      | <b>LTE BAND2+WIFI Left cheek</b> | <b>LTE BAND2+WIFI TG</b>   |

According to the above tables, the sum of SAR values for LTE and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

## 7 MEASUREMENT UNCERTAINTY

| DASY5 Uncertainty Budget        |                   |             |            |                 |                  |                      |                  |              |
|---------------------------------|-------------------|-------------|------------|-----------------|------------------|----------------------|------------------|--------------|
| Error description               | Uncertainty value | Prob. Dist. | Div.       | ( $c_i$ )<br>1g | ( $c_i$ )<br>10g | Std.Un<br>c<br>(1g). | Std.Unc<br>(10g) | (vi)<br>Veff |
| <b>Measurement system</b>       |                   |             |            |                 |                  |                      |                  |              |
| Probe calibration               | ±6.0%             | N           | 1          | 1               | 1                | ±6.0%                | ±6.0%            | ∞            |
| Axial isotropy                  | ±4.7%             | R           | $\sqrt{3}$ | 0.7             | 0.7              | ±1.9%                | ±1.9%            | ∞            |
| Hemispherical isotropy          | ±9.6%             | R           | $\sqrt{3}$ | 0.7             | 0.7              | ±3.9%                | ±3.9%            | ∞            |
| Boundary Effects                | ±1.0%             | R           | $\sqrt{3}$ | 1               | 1                | ±0.6%                | ±0.6%            | ∞            |
| Linearity                       | ±4.7%             | R           | $\sqrt{3}$ | 1               | 1                | ±2.7%                | ±2.7%            | ∞            |
| System detection limits         | ±1.0%             | R           | $\sqrt{3}$ | 1               | 1                | ±0.6%                | ±0.6%            | ∞            |
| Readout electronics             | ±0.3%             | N           | 1          | 1               | 1                | ±0.3%                | ±0.3%            | ∞            |
| Response time                   | ±0.8%             | R           | $\sqrt{3}$ | 1               | 1                | ±0.5%                | ±0.5%            | ∞            |
| Integration time                | ±2.6%             | R           | $\sqrt{3}$ | 1               | 1                | ±1.5%                | ±1.5%            | ∞            |
| RF ambient noise                | ±3.0%             | R           | $\sqrt{3}$ | 1               | 1                | ±1.7%                | ±1.7%            | ∞            |
| RF ambient reflections          | ±3.0%             | R           | $\sqrt{3}$ | 1               | 1                | ±1.7%                | ±1.7%            | ∞            |
| Probe positioner                | ±0.4%             | R           | $\sqrt{3}$ | 1               | 1                | ±0.2%                | ±0.2%            | ∞            |
| Probe positioning               | ±2.9%             | R           | $\sqrt{3}$ | 1               | 1                | ±1.7%                | ±1.7%            | ∞            |
| Max.SAR Eval.                   | ±1.0%             | R           | $\sqrt{3}$ | 1               | 1                | ±0.6%                | ±0.6%            | ∞            |
| <b>Test Sample Related</b>      |                   |             |            |                 |                  |                      |                  |              |
| Device holder                   | ±3.6%             | N           | 1          | 1               | 1                | ±3.6%                | ±3.6%            | 5            |
| Device Positioning              | ±2.9%             | N           | 1          | 1               | 1                | ±2.9%                | ±2.9%            | 145          |
| Power drift                     | ±5.0%             | R           | $\sqrt{3}$ | 1               | 1                | ±2.9%                | ±2.9%            | ∞            |
| <b>Phantom and Setup</b>        |                   |             |            |                 |                  |                      |                  |              |
| Phantom uncertainty             | ±4.0%             | R           | $\sqrt{3}$ | 1               | 1                | ±2.3%                | ±2.3%            | ∞            |
| Liquid conductivity (target.)   | ±5.0%             | R           | $\sqrt{3}$ | 0.64            | 0.43             | ±1.8%                | ±1.2%            | ∞            |
| Liquid conductivity (mea.)      | ±2.5%             | R           | $\sqrt{3}$ | 0.64            | 0.43             | ±0.9%                | ±0.6%            | ∞            |
| Liquid Permittivity (target.)   | ±5.0%             | R           | $\sqrt{3}$ | 0.60            | 0.49             | ±1.7%                | ±1.4%            | ∞            |
| Liquid Permittivity (mea.)      | ±2.5%             | R           | $\sqrt{3}$ | 0.60            | 0.49             | ±0.9%                | ±0.7%            | ∞            |
| Combined std. Uncertainty       |                   |             |            |                 |                  | ±10.9%               | ±10.7%           | 387          |
| <b>Expanded STD Uncertainty</b> |                   |             |            |                 |                  | <b>±21.7%</b>        | <b>±21.4%</b>    |              |

## 8 TEST EQUIPMENTS

The measurements were performed using an automated near-field scanning system, DASY5, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

| Test Equipment           | Model   | Serial Number | Calibration date | Calibration Due data |
|--------------------------|---------|---------------|------------------|----------------------|
| DAE                      | DAE4    | 720           | 2016.10.31       | 2017.10.30           |
| DAE                      | DAE4    | 546           | 2016.08.22       | 2017.08.21           |
| Dosimetric E-field Probe | EX3DV4  | 3708          | 2016.11.10       | 2017.11.09           |
| Dosimetric E-field Probe | ES3DV3  | 3127          | 2016.08.29       | 2017.08.28           |
| Dipole Validation Kit    | D835V2  | 4d023         | 2016.10.24       | 2017.10.23           |
| Dipole Validation Kit    | D1800V2 | 2d084         | 2016.08.19       | 2017.08.18           |
| Dipole Validation Kit    | D1900V2 | 5d113         | 2016.10.31       | 2017.10.30           |
| Dipole Validation Kit    | D2450V2 | 738           | 2016.10.25       | 2017.10.24           |

Additional test equipment used in testing:

| Test Equipment             | Model    | Serial Number | Calibration date | Calibration Due data |
|----------------------------|----------|---------------|------------------|----------------------|
| Signal Generator           | E4428C   | MY45280865    | 2016.08.20       | 2017.08.19           |
| Signal Generator           | SML 03   | 103514        | 2016.08.20       | 2017.08.19           |
| Power meter                | E4417A   | MY45101182    | 2016.08.20       | 2017.08.19           |
| Power Sensor               | E4412A   | MY41502214    | 2016.08.20       | 2017.08.19           |
| Power Sensor               | E4412A   | MY41502130    | 2016.08.20       | 2017.08.19           |
| Power meter                | E4417A   | MY45101004    | 2016.08.20       | 2017.08.19           |
| Power Sensor               | E9300B   | MY41496001    | 2016.08.20       | 2017.08.19           |
| Power Sensor               | E9300B   | MY41496003    | 2016.08.20       | 2017.08.19           |
| Communication Tester       | 8960     | GB43194054    | 2016.08.20       | 2017.08.19           |
| Communication Tester       | CMU200   | 114666        | 2016.08.20       | 2017.08.19           |
| Vector Network Analyzer    | VNA R140 | 0011213       | 2016.08.20       | 2017.08.19           |
| Dielectric Parameter Probe | DAKS-3.5 | 1042          | 2016.08.20       | 2017.08.19           |

Detailed information of Isotropic E-field Probe Type ES3DV3

|                           |   |
|---------------------------|---|
| Construction              | Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |
| Calibration               | Calibration certificate in Appendix C   |
| Frequency                 | 10 MHz to 4 GHz;<br>Linearity: $\pm 0.2$ dB (30 MHz to 4 GHz)   |
| Optical Surface Detection | $\pm 0.2$ mm repeatability in air and clear liquids over diffuse reflecting surfaces  |
| Dimensions                | Overall length: 337 mm (Tip: 20 mm)<br>Tip diameter: 3.9 mm (Body: 12 mm)<br>Distance from probe tip to dipole centers: 2.0 mm  |
| Dynamic Range             | 5 $\mu$ W/g to > 100 W/kg; Linearity: $\pm 0.2$ dB  |
| Application               | General dosimetry up to 4 GHz<br>Dosimetry in strong gradient fields<br>Compliance tests of mobile phones   |

Detailed information of Isotropic E-field Probe Type EX3DV4

|                           |   |
|---------------------------|---|
| Construction              | Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)   |
| Calibration               | Calibration certificate in Appendix C   |
| Frequency                 | 10 MHz to > 6 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)  |
| Optical Surface Detection | $\pm 0.3$ mm repeatability in air and clear liquids over diffuse reflecting surfaces  |
| Dimensions                | Overall length: 337 mm (Tip: 20 mm)<br>Tip diameter: 2.5 mm (Body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm  |
| Dynamic Range             | 10 $\mu$ W/g to > 100 W/kg<br>Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)  |
| Application               | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%. |

**ANNEX A – TEST PLOTS**

Please refer to the attachment.

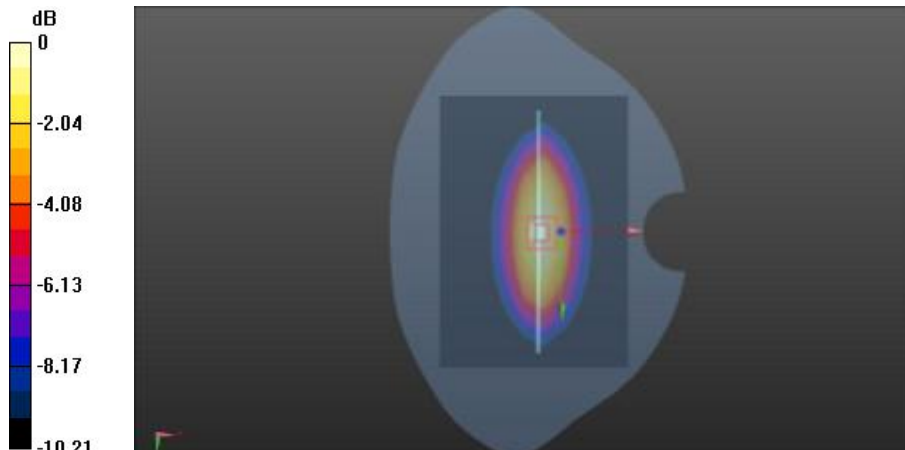
**ANNEX B – RELEVANT PAGES FROM CALIBRATION REPORTS**

Please refer to the attachment.

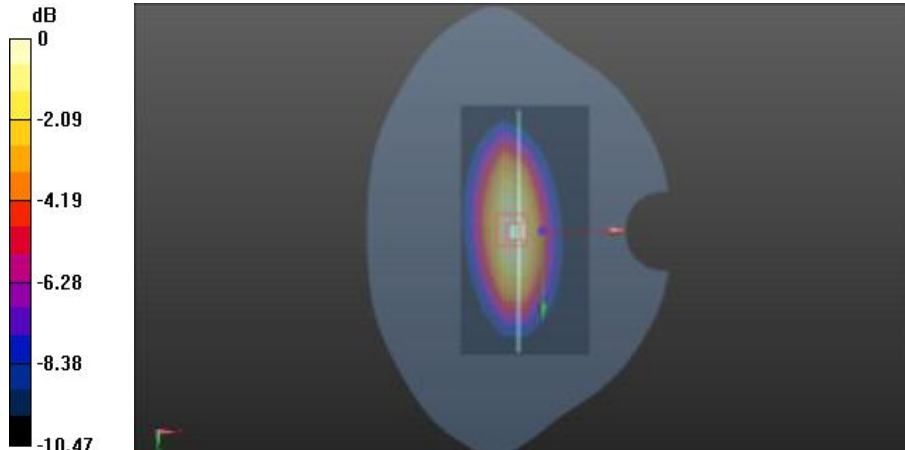
**ANNEX C – PHOTOGRAPH**

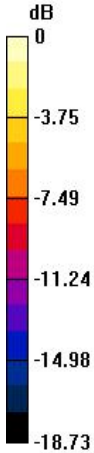
Please refer to the attachment.

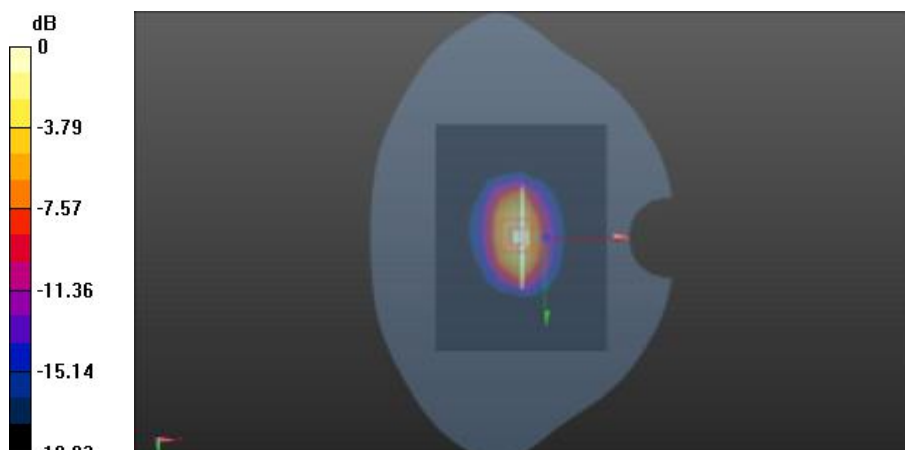
**ANNEX A – TEST PLOTS**

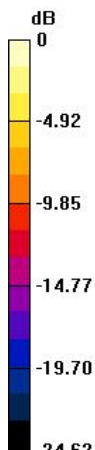
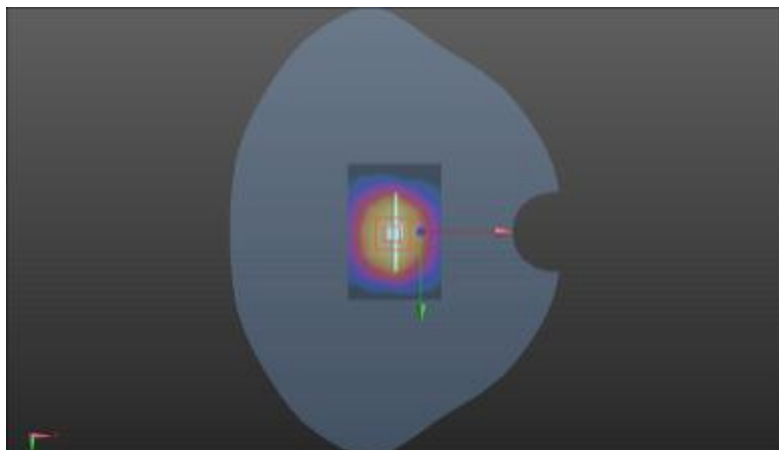
| SYSTEM CHECKING SCANS   | 835MHz Head |
|---|-------------|
| <p>Communication System: UID 0, CW (0); Frequency: 835 MHz<br/>                     Medium parameters used (extrapolated): <math>f = 835 \text{ MHz}</math>; <math>\sigma = 0.909 \text{ S/m}</math>; <math>\epsilon_r = 42.108</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>                     Phantom section: Flat Section<br/>                     Measurement Standard:DASY5 (IEEE 1528-2013)</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.97, 5.97, 5.97); Calibrated: 8/21/2015;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = 2.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/19/2015</li> <li>• Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> <p><b>System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (10x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 2.98 W/kg</p> <p><b>System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 54.113 V/m; Power Drift = -0.05 dB<br/>                     Peak SAR (extrapolated) = 3.55 W/kg<br/> <b>SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.53 W/kg</b><br/>                     Maximum value of SAR (measured) = 2.98 W/kg</p> |             |
|   |             |

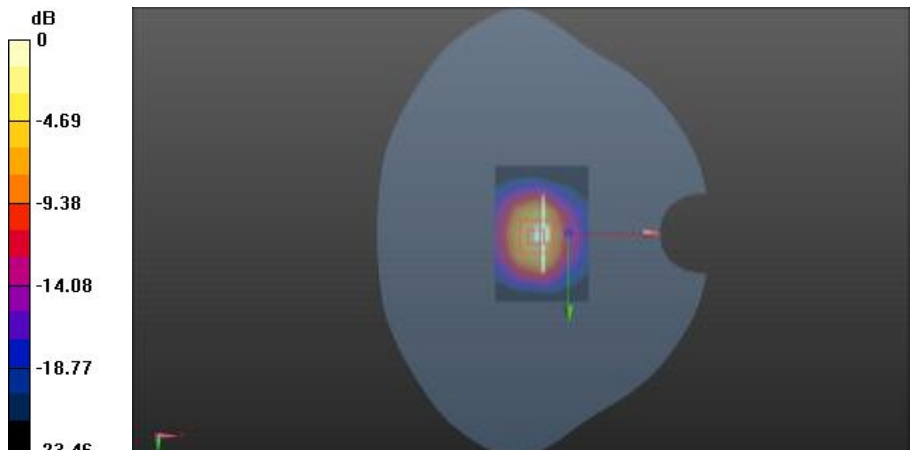


| SYSTEM CHECKING SCANS   | 835MHz Flat |
|---|-------------|
| Communication System: UID 0, CW (0); Frequency: 835 MHz<br>Medium parameters used (extrapolated): $f = 835 \text{ MHz}$ ; $\sigma = 0.978 \text{ S/m}$ ; $\epsilon_r = 53.846$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Flat Section<br>Measurement Standard: DASY5 (IEEE 1528-2013)  |             |
| DASY Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.88, 5.88, 5.88); Calibrated: 8/21/2015;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = -18.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/19/2015</li> <li>• Phantom: SAM 1559; Type: SAM; Serial: 1559</li> <li>• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> <p><b>System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (7x12x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 2.55 W/kg</p> <p><b>System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 53.044 V/m; Power Drift = -0.01 dB<br/>                     Peak SAR (extrapolated) = 3.54 W/kg<br/> <b>SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.53 W/kg</b><br/>                     Maximum value of SAR (measured) = 2.87 W/kg</p> |             |
|  <p>The figure displays a color-coded SAR field distribution. On the left, a vertical color scale ranges from 0 dB (yellow) at the top to -10.47 dB (black) at the bottom, with intermediate markers at -2.09, -4.19, -6.28, and -8.38 dB. To the right, a 2D visualization shows a central, high-intensity region (yellow/red) that tapers off into a blue and black background, representing the spatial distribution of the SAR field.</p>   |             |

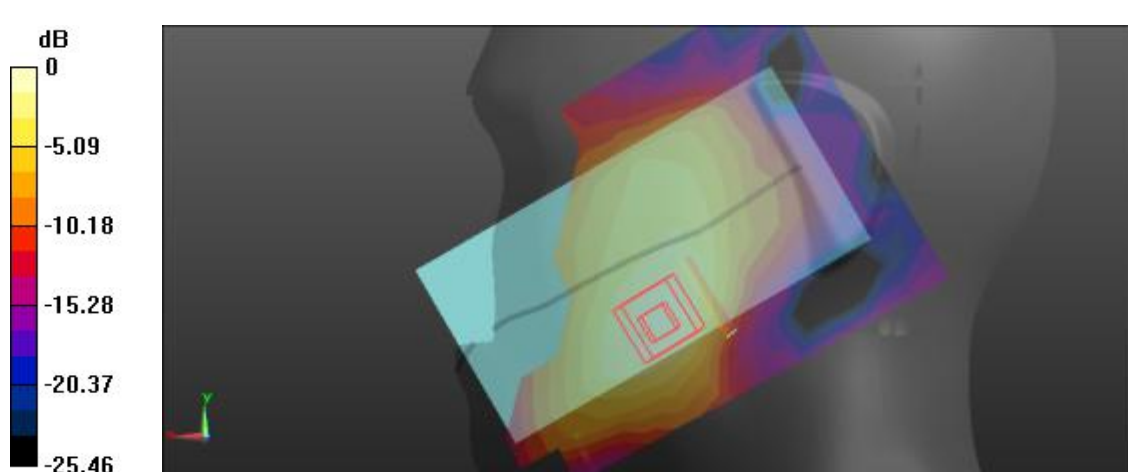
| SYSTEM CHECKING SCANS  | 1900MHz Head   |
|--|--|
| <p>Communication System: UID 0, CW (0); Frequency: 1900 MHz<br/>           Medium parameters used: <math>f = 1900</math> MHz; <math>\sigma = 1.41</math> S/m; <math>\epsilon_r = 40.84</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section<br/>           Measurement Standard:DASY5 (IEEE 1528-2013)</p>                               |  |
| <p>DASY Configuration:</p>   |  |
| <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.94, 4.94, 4.94); Calibrated: 8/21/2015;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = 2.0, 32.0</math></li> <li>Electronics: DAE4 Sn546; Calibrated: 8/19/2015</li> <li>Phantom: SAM 1560; Type: SAM; Serial: 1560</li> <li>DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul> |  |
| <p><b>System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Area Scan (9x12x1):</b> Measurement grid: dx=15mm, dy=15mm</p>   |  |
| <p>Maximum value of SAR (measured) = 14.0 W/kg</p>   |  |
| <p><b>System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b></p>  |  |
| <p>Measurement grid: dx=5mm, dy=5mm, dz=5mm</p>  |  |
| <p>Reference Value = 95.996 V/m; Power Drift = 0.05 dB</p>   |  |
| <p>Peak SAR (extrapolated) = 20.8 W/kg</p>   |  |
| <p><b>SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.47 W/kg</b></p>  |  |
| <p>Maximum value of SAR (measured) = 15.9 W/kg</p>   |  |
|   |  |

| SYSTEM CHECKING SCANS  | 1900MHz Flat |
|--|--------------|
| <p>Communication System: UID 0, CW (0); Frequency: 1900 MHz<br/>           Medium parameters used: <math>f = 1900</math> MHz; <math>\sigma = 1.53</math> S/m; <math>\epsilon_r = 52.184</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section<br/>           Measurement Standard:DASY5 (IEEE 1528-2013)</p>  |              |
| <p>DASY Configuration:</p>   |              |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.67, 4.67, 4.67); Calibrated: 8/21/2015;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection), <math>z = 2.0, 32.0</math></li> <li>• Electronics: DAE4 Sn546; Calibrated: 8/19/2015</li> <li>• Phantom: SAM 1560; Type: SAM; Serial: 1560</li> <li>• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)</li> </ul>   |              |
| <p><b>System Performance Check at Frequencies 1900MHz Flat/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (9x11x1):</b> Measurement grid: dx=15mm, dy=15mm</p>  |              |
| <p>Maximum value of SAR (measured) = 14.7 W/kg</p>   |              |
| <p><b>System Performance Check at Frequencies 1900MHz Flat/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm</p>  |              |
| <p>Reference Value = 91.541 V/m; Power Drift = 0.01 dB</p>   |              |
| <p>Peak SAR (extrapolated) = 19.2 W/kg</p>   |              |
| <p><b>SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.64 W/kg</b></p>  |              |
| <p>Maximum value of SAR (measured) = 14.5 W/kg</p>   |              |
|  <p>The figure is a heatmap representing the SAR field distribution. On the left, there is a vertical color scale legend labeled 'dB' with values: 0 (yellow), -3.79 (orange), -7.57 (red), -11.36 (purple), -15.14 (dark blue), and -18.93 (black). The main image shows a dark blue background with a central, bright yellow and red circular region, indicating the highest SAR values. This central region is surrounded by concentric rings of decreasing intensity, transitioning through purple and dark blue to black at the edges. The overall shape is roughly circular with some irregularities, suggesting a localized field source.</p> |              |

| SYSTEM CHECKING SCANS  | 2450 MHz Head  |
|--|--|
| Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 2450 \text{ MHz}$ ; $\sigma = 1.79 \text{ S/m}$ ; $\epsilon_r = 39.208$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Flat Section   |  |
| DASY5 Configuration:   |  |
| <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.35, 4.35, 4.35); Calibrated: 2015/8/21;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2015/8/19</li> <li>Phantom: SAM 1659; Type: QD000P40CD; Serial: TP:1659</li> <li>Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)</li> </ul> |  |
| <b>System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1):</b> Measurement grid: dx=15mm, dy=15mm  |  |
| Maximum value of SAR (measured) = 17.1 W/kg  |  |
| <b>System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm   |  |
| Reference Value = 102.2 V/m; Power Drift = -0.02 dB  |  |
| Peak SAR (extrapolated) = 28.8 W/kg  |  |
| <b>SAR(1 g) = 13.12 W/kg; SAR(10 g) = 5.92 W/kg</b>  |  |
| Maximum value of SAR (measured) = 17.0 W/kg  |  |
|   |  |

| SYSTEM CHECKING SCANS  | 2450MHz Flat |
|--|--------------|
| <p>Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1<br/>Medium parameters used: <math>f = 2450</math> MHz; <math>\sigma = 1.965</math> S/m; <math>\epsilon_r = 52.042</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>  |              |
| <p>DASY5 Configuration:</p>  |              |
| <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.19, 4.19, 4.19); Calibrated: 2015/8/21;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2015/8/19</li> <li>Phantom: SAM 1659; Type: QD000P40CD; Serial: TP:1659</li> <li>Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)</li> </ul>   |              |
| <p><b>System Performance Check at Frequencies 2450MHz Flat/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1):</b> Measurement grid: dx=15mm, dy=15mm</p>   |              |
| <p>Maximum value of SAR (measured) = 17.1 W/kg</p>   |              |
| <p><b>System Performance Check at Frequencies 2450MHz Flat/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm</p>  |              |
| <p>Reference Value = 104.3 V/m; Power Drift = -0.01 dB</p>   |              |
| <p>Peak SAR (extrapolated) = 28.0 W/kg</p>   |              |
| <p><b>SAR(1 g) = 12.93 W/kg; SAR(10 g) = 5.78 W/kg</b></p>   |              |
| <p>Maximum value of SAR (measured) = 17.4 W/kg</p>   |              |
|  <p>The figure displays a color scale for SAR field strength in dB, ranging from 0 dB (yellow) to -23.46 dB (black). The scale includes intermediate values: -4.69, -9.38, -14.08, and -18.77. To the right of the scale is a 2D visualization of a phantom head. A central region is highlighted with a color gradient corresponding to the scale, indicating the SAR distribution. A red line and a green line are visible on the visualization, likely representing the probe's position and orientation.</p> |              |

**GSM (850MHz/Head)**

| Left Side   | Cheek |
|---|-------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section<br><br>DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> |       |
| <p><b>Head-Section Left HSL 850/850GSM HSL touch M/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0699 W/kg</p> <p><b>Head-Section Left HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 2.323 V/m; Power Drift = 0.05 dB<br/>                     Peak SAR (extrapolated) = 0.144 W/kg<br/> <b>SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.042 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0834 W/kg</p>   |       |
|  <p>0 dB = 0.0834 W/kg = -10.79 dBW/kg</p>  |       |

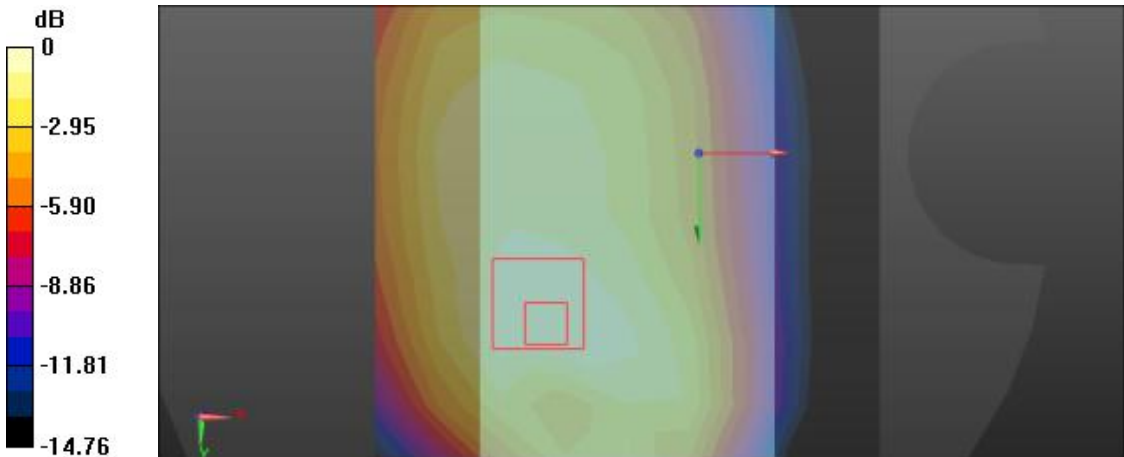
| Left Side  | Tilt |
|--|------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section   |      |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section Left HSL 850/850GSM HSL tilt M/Area Scan (9x13x1):</b><br>Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.0265 W/kg<br><b>Head-Section Left HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b><br>Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 4.598 V/m; Power Drift = -0.18 dB<br>Peak SAR (extrapolated) = 0.0510 W/kg<br><b>SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.016 W/kg</b><br>Maximum value of SAR (measured) = 0.0303 W/kg |      |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p>dB</p> <p>0<br/>-10.00<br/>-20.00<br/>-30.00<br/>-40.00<br/>-50.00</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0303 W/kg = -15.19 dBW/kg</p>   |      |

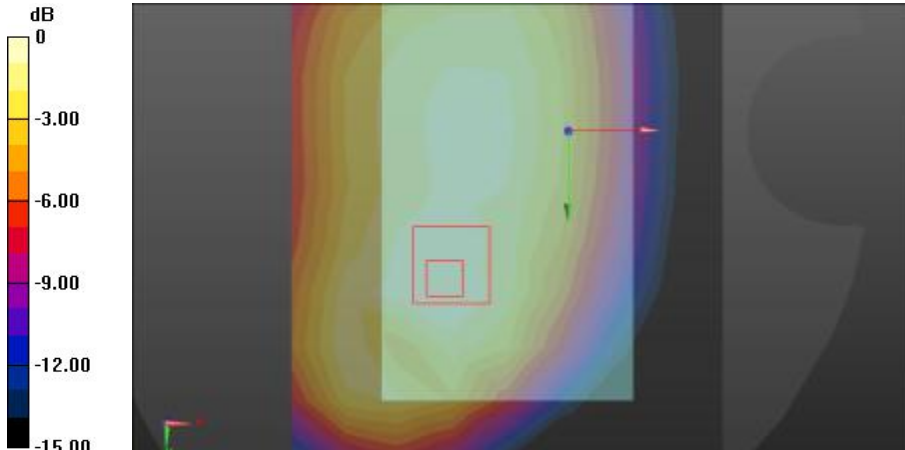
| Right Side   | Cheek |
|--|-------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br/>                     Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL 850/850GSM HSL touch M/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.258 W/kg</p> <p><b>Head-Section Right HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 3.684 V/m; Power Drift = -0.12 dB<br/>                     Peak SAR (extrapolated) = 0.334 W/kg<br/> <b>SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.191 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.265 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.07<br/>-4.14<br/>-6.22<br/>-8.29<br/>-10.36</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.265 W/kg = -5.77 dBW/kg</p> |       |



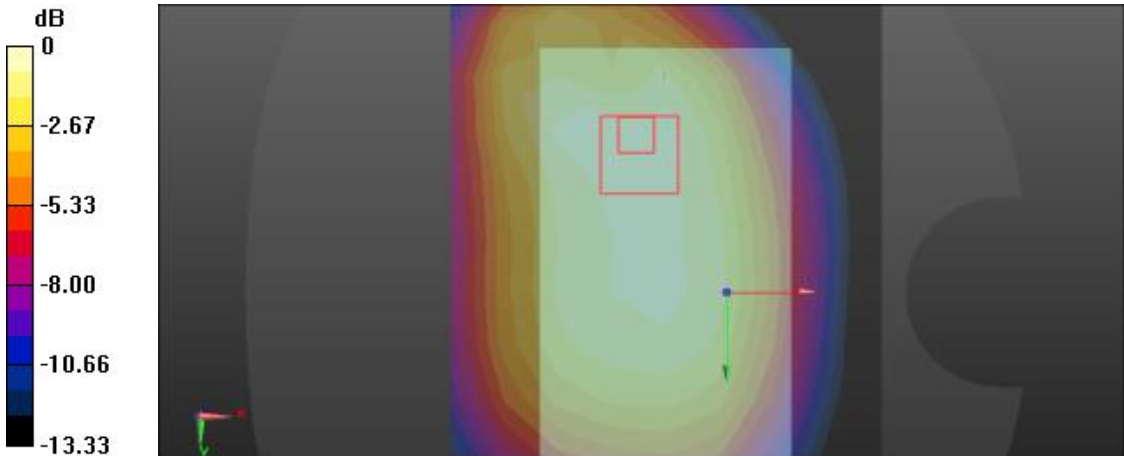
| Right Side  | Tilt |
|---|------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br/>                     Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL 850/850GSM HSL tilt M/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.134 W/kg</p> <p><b>Head-Section Right HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 7.250 V/m; Power Drift = -0.17 dB<br/>                     Peak SAR (extrapolated) = 0.156 W/kg<br/> <b>SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.101 W/kg</b></p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-1.76<br/>-3.51<br/>-5.27<br/>-7.02<br/>-8.78</p> </div> <div> </div> </div> <p>0 dB = 0.134 W/kg = -8.73 dBW/kg</p> |      |

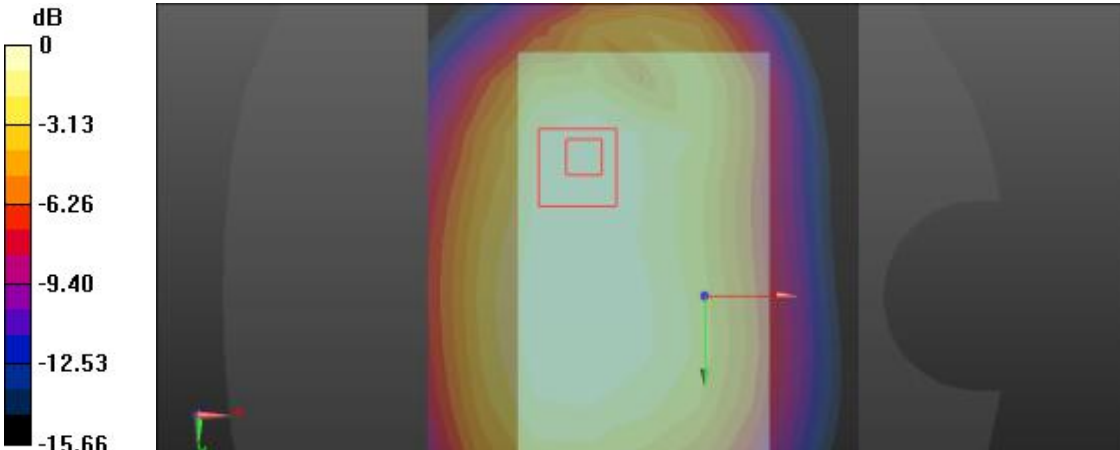
**GSM with headset (850MHz/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896<br/>           Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p>   |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TP/850GSM TP M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.378 W/kg<br/> <b>Flat-Section MSL 850 TP/850GSM TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 15.66 V/m; Power Drift = -0.00 dB<br/>           Peak SAR (extrapolated) = 0.536 W/kg<br/> <b>SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.259 W/kg</b><br/>           Maximum value of SAR (measured) = 0.392 W/kg</p> |                 |
|  <p>0 dB = 0.392 W/kg = -4.07 dBW/kg</p>   |                 |

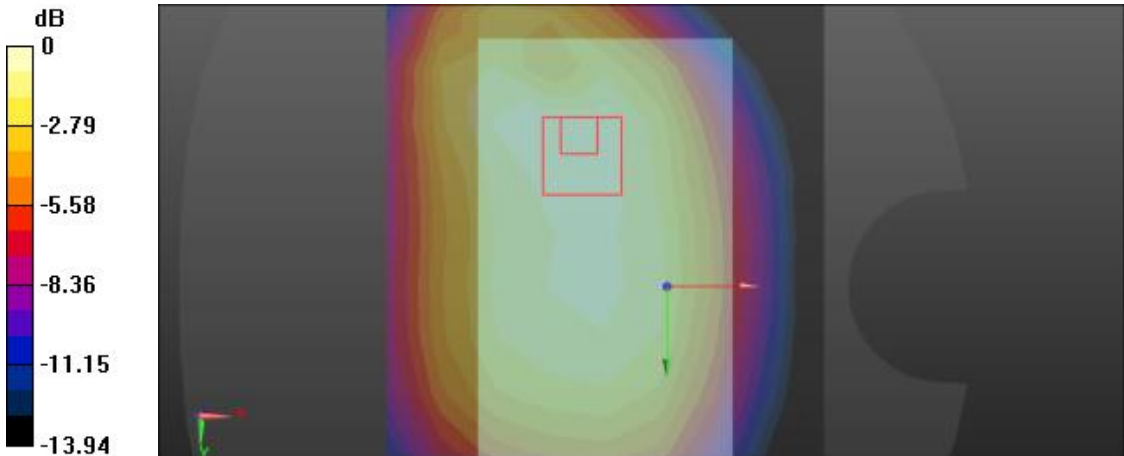
| FLAT   | Towards ground |
|--|----------------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br/>           Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p>  |                |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TG/850GSM TG M 10mm/Area Scan (9x13x1):</b><br/>           Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.447 W/kg</p> <p><b>Flat-Section MSL 850 TG/850GSM TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>           Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 19.99 V/m; Power Drift = -0.06 dB<br/>           Peak SAR (extrapolated) = 0.591 W/kg<br/> <b>SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.298 W/kg</b><br/>           Maximum value of SAR (measured) = 0.448 W/kg</p> |                |
|  <p>0 dB = 0.448 W/kg = -3.49 dBW/kg</p>   |                |

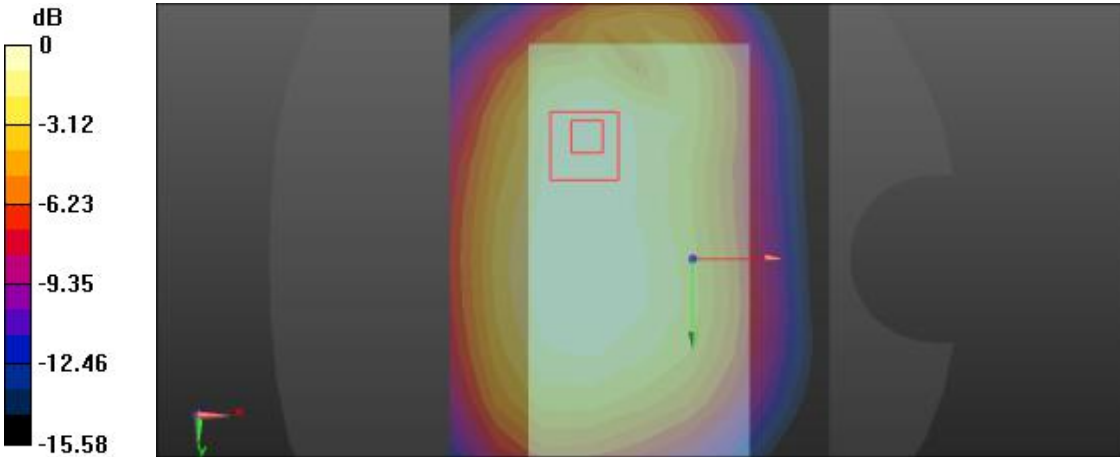
**GSM (850MHz with GPRS/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896<br/>           Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p>  |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TP/850GPRS TP M 10mm/Area Scan (9x13x1):</b><br/>           Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.723 W/kg</p> <p><b>Flat-Section MSL 850 TP/850GPRS TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>           Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 26.20 V/m; Power Drift = -0.02 dB<br/>           Peak SAR (extrapolated) = 0.983 W/kg<br/> <b>SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.503 W/kg</b><br/>           Maximum value of SAR (measured) = 0.743 W/kg</p> |                 |
|  <p>0 dB = 0.743 W/kg = -1.29 dBW/kg</p>   |                 |

| FLAT  | Towards ground |
|---|----------------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br/>           Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p>   |                |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TG/850GPRS TG M 10mm/Area Scan (9x13x1):</b><br/>           Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.821 W/kg</p> <p><b>Flat-Section MSL 850 TG/850GPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>           Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 27.07 V/m; Power Drift = -0.00 dB<br/>           Peak SAR (extrapolated) = 1.06 W/kg<br/> <b>SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.563 W/kg</b><br/>           Maximum value of SAR (measured) = 0.833 W/kg</p> |                |
|  <p>0 dB = 0.833 W/kg = -0.79 dBW/kg</p>  |                |

**GSM (850MHz with EGPRS/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896<br/>           Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p>   |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 850 TP/850EDGE TP M 10mm/Area Scan (9x13x1):</b><br/>           Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.709 W/kg</p> <p><b>Flat-Section MSL 850 TP/850EDGE TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>           Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 26.06 V/m; Power Drift = -0.02 dB<br/>           Peak SAR (extrapolated) = 0.975 W/kg<br/> <b>SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.504 W/kg</b><br/>           Maximum value of SAR (measured) = 0.747 W/kg</p> |                 |
|  <p>0 dB = 0.747 W/kg = -1.27 dBW/kg</p>   |                 |

| FLAT   | Towards ground |
|--|----------------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Area Scan (9x13x1):</b><br>Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.829 W/kg<br><b>Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br>Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 27.01 V/m; Power Drift = 0.06 dB<br>Peak SAR (extrapolated) = 1.08 W/kg<br><b>SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.565 W/kg</b><br>Maximum value of SAR (measured) = 0.837 W/kg |                |
|  <p>0 dB = 0.837 W/kg = -0.77 dBW/kg</p>   |                |

**FLAT**

**EDGE2**

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.96$  S/m;  $\epsilon_r = 55.858$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 2/Area Scan (6x15x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.320 W/kg

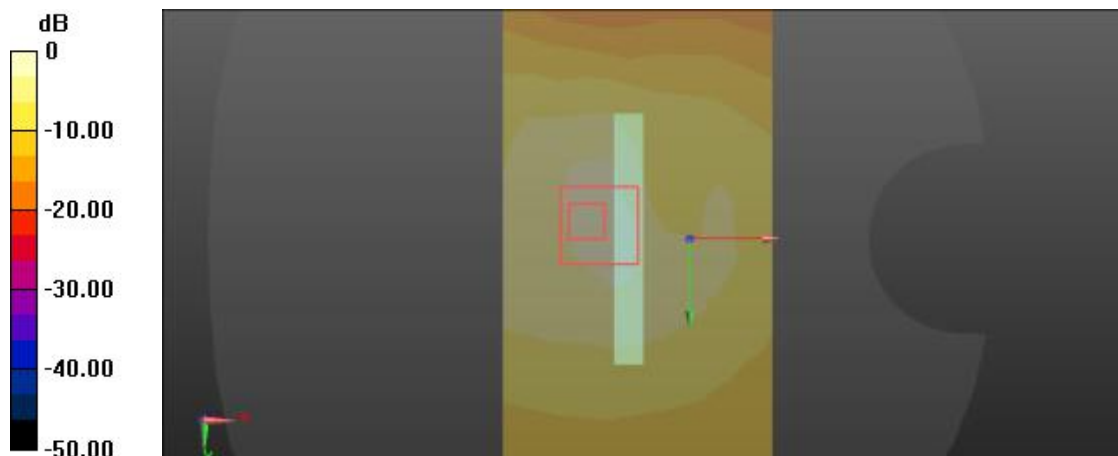
**Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.86 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.750 W/kg

**SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.189 W/kg**

Maximum value of SAR (measured) = 0.435 W/kg



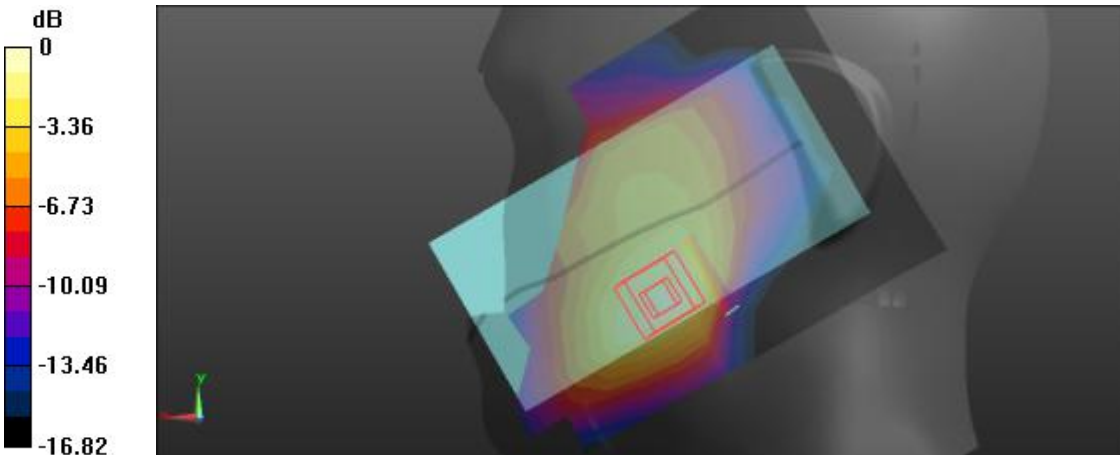
0 dB = 0.435 W/kg = -3.62 dBW/kg



| FLAT   | EDGE3 |
|--|-------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br/>           Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 3/Area Scan (6x15x1):</b><br/>           Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.750 W/kg</p> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 26.89 V/m; Power Drift = -0.02 dB<br/>           Peak SAR (extrapolated) = 1.05 W/kg<br/> <b>SAR(1 g) = 0.709 W/kg; SAR(10 g) = 0.480 W/kg</b><br/>           Maximum value of SAR (measured) = 0.757 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p>dB</p> <p>0<br/>-1.97<br/>-3.95<br/>-5.92<br/>-7.90<br/>-9.87</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.757 W/kg = -1.21 dBW/kg</p> |       |

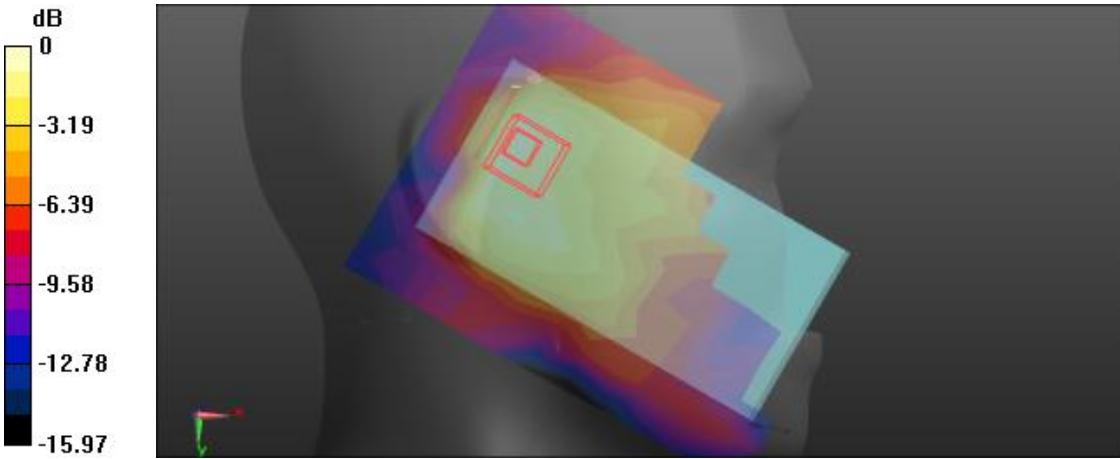
| FLAT  | EDGE4 |
|---|-------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896<br/>           Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 4/Area Scan (6x15x1):</b><br/>           Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.325 W/kg</p> <p><b>Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 16.00 V/m; Power Drift = 0.07 dB<br/>           Peak SAR (extrapolated) = 0.504 W/kg<br/> <b>SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.233 W/kg</b><br/>           Maximum value of SAR (measured) = 0.366 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p><b>dB</b></p> <p>0<br/>-1.94<br/>-3.88<br/>-5.83<br/>-7.77<br/>-9.71</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.366 W/kg = -4.37 dBW/kg</p> |       |

**GSM (1900MHz/Head)**

| Left Side  | Cheek |
|--|-------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896<br/>           Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL 1900 LEFT/1900GSM HSL touch M/Area Scan (9x13x1):</b><br/>           Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.202 W/kg</p> <p><b>Head-Section HSL 1900 LEFT/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b><br/>           Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 2.793 V/m; Power Drift = 0.12 dB<br/>           Peak SAR (extrapolated) = 0.318 W/kg<br/> <b>SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.136 W/kg</b><br/>           Maximum value of SAR (measured) = 0.232 W/kg</p> |       |
|  <p>0 dB = 0.232 W/kg = -6.35 dBW/kg</p>   |       |

| Left Side  | Tilt |
|--|------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896<br>Medium parameters used: f = 1880 MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.74$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section  |      |
| DASY5 Configuration:   |      |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL 1900 LEFT/1900GSM HSL tilt M/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0635 W/kg</p> <p><b>Head-Section HSL 1900 LEFT/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 4.909 V/m; Power Drift = -0.20 dB<br/>                     Peak SAR (extrapolated) = 0.0950 W/kg<br/> <b>SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.045 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0740 W/kg</p> |      |
|  |      |
| <p>0 dB = 0.0740 W/kg = -11.31 dBW/kg</p>  |      |

| Right Side  | Cheek |
|---|-------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.74$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Right Section   |       |
| DASY5 Configuration:  |       |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL 1900 RIGHT/1900GSM HSL touch M/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.146 W/kg</p> <p><b>Head-Section HSL 1900 RIGHT/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 3.643 V/m; Power Drift = 0.12 dB<br/>                     Peak SAR (extrapolated) = 0.226 W/kg<br/> <b>SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.099 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.172 W/kg</p> |       |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.98<br/>-5.96<br/>-8.94<br/>-11.92<br/>-14.90</p> </div> <div> <p>0 dB = 0.172 W/kg = -7.64 dBW/kg</p> </div> </div>  |       |

| Right Side  | Tilt |
|---|------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896<br/>Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Right Section</p>  |      |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL 1900 RIGHT/1900GSM HSL tilt M/Area Scan (9x13x1):</b><br/>Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.0536 W/kg</p> <p><b>Head-Section HSL 1900 RIGHT/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b><br/>Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 5.462 V/m; Power Drift = -0.15 dB<br/>Peak SAR (extrapolated) = 0.0890 W/kg<br/><b>SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.036 W/kg</b><br/>Maximum value of SAR (measured) = 0.0604 W/kg</p> |      |
|  <p>0 dB = 0.0604 W/kg = -12.19 dBW/kg</p>  |      |

**GSM with headset (1900MHz/Flat)**

| FLAT  | Towards phantom |
|---|-----------------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.74$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section<br><br>DASY5 Configuration: <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> |                 |
| <p><b>Flat-Section MSL 1900 TP/1900GSM TP M 10mm/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.218 W/kg</p> <p><b>Flat-Section MSL 1900 TP/1900GSM TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 8.398 V/m; Power Drift = 0.04 dB<br/>                     Peak SAR (extrapolated) = 0.338 W/kg<br/> <b>SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.138 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.227 W/kg</p>   |                 |
| <p style="text-align: center;">0 dB = 0.227 W/kg = -6.44 dBW/kg</p>   |                 |

| FLAT   | Towards ground |
|--|----------------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TG/1900GSM TG M 10mm/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.505 W/kg</p> <p><b>Flat-Section MSL 1900 TG/1900GSM TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 9.683 V/m; Power Drift = 0.12 dB<br/>                     Peak SAR (extrapolated) = 0.878 W/kg<br/> <b>SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.302 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.582 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p><b>dB</b></p> <p>0<br/>-3.19<br/>-6.38<br/>-9.58<br/>-12.77<br/>-15.96</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.582 W/kg = -2.35 dBW/kg</p> |                |



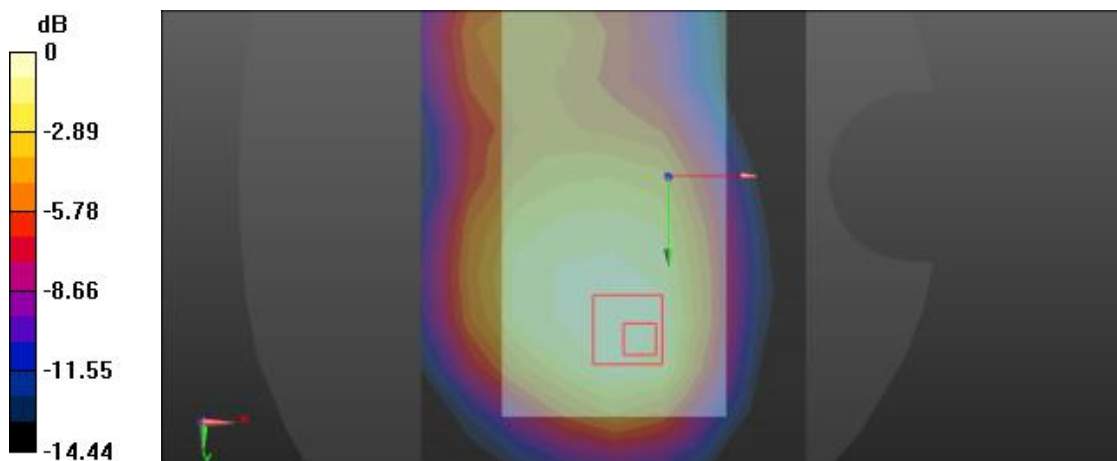
**GSM (1900MHz with GPRS/Flat)**

| FLAT | Towards phantom |
|------|-----------------|
|------|-----------------|

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896  
 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  S/m;  $\epsilon_r = 39.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY5 Configuration:

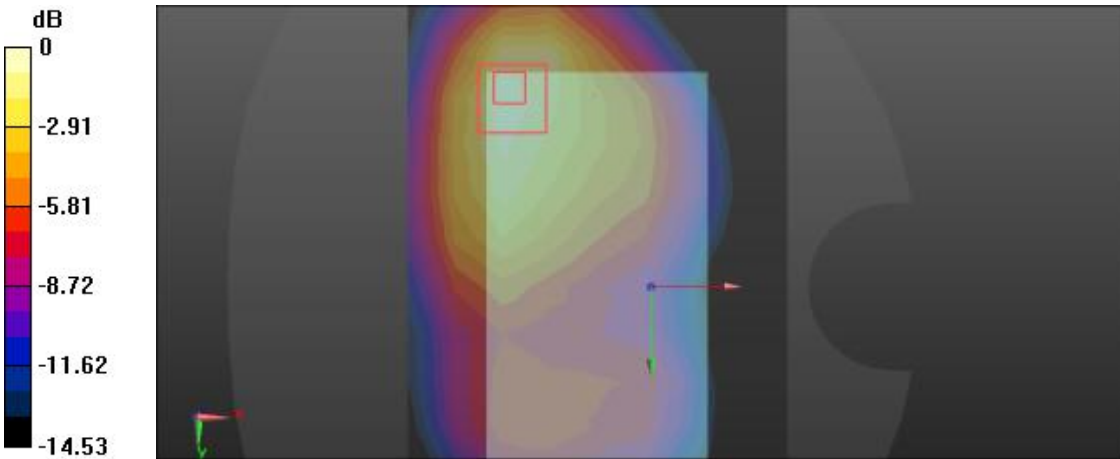
- Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE4 Sn720; Calibrated: 2016/10/31
  - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
  - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
- Flat-Section MSL 1900 TP/1900GPRS TP M 10mm/Area Scan (9x13x1):**  
 Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.396 W/kg
- Flat-Section MSL 1900 TP/1900GPRS TP M 10mm/Zoom Scan (7x7x7)/Cube 0:**  
 Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 12.61 V/m; Power Drift = 0.04 dB  
 Peak SAR (extrapolated) = 0.668 W/kg  
**SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.269 W/kg**  
 Maximum value of SAR (measured) = 0.451 W/kg



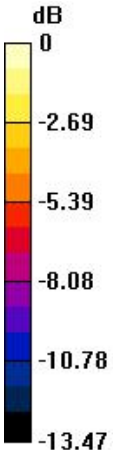
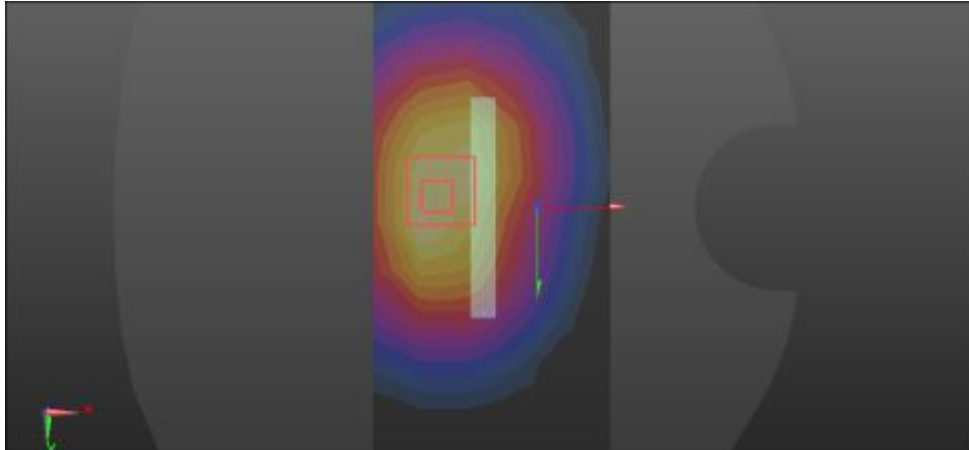
0 dB = 0.451 W/kg = -3.46 dBW/kg

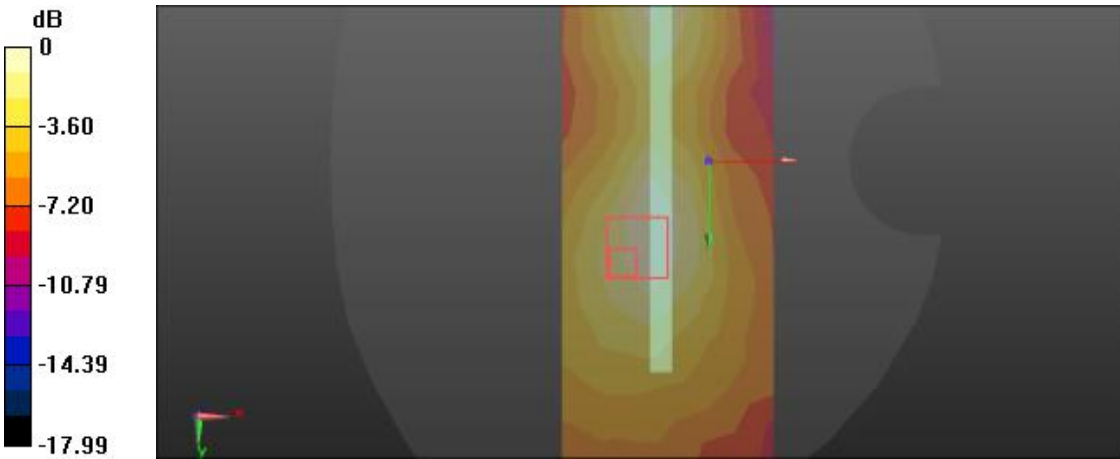
| FLAT  | Towards ground |
|---|----------------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section  |                |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TG/1900GPRS TG M 10mm/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.730 W/kg</p> <p><b>Flat-Section MSL 1900 TG/1900GPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 12.59 V/m; Power Drift = 0.06 dB<br/>                     Peak SAR (extrapolated) = 1.25 W/kg<br/> <b>SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.450 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.833 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.06<br/>-6.13<br/>-9.19<br/>-12.26<br/>-15.32</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.833 W/kg = -0.79 dBW/kg</p> |                |

**GSM (1900MHz with EGPRS/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896<br/>           Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p>  |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TP/1900EDGE TP M 10mm/Area Scan (9x13x1):</b><br/>           Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.522 W/kg</p> <p><b>Flat-Section MSL 1900 TP/1900EDGE TP M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>           Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 8.130 V/m; Power Drift = 0.09 dB<br/>           Peak SAR (extrapolated) = 0.820 W/kg<br/> <b>SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.294 W/kg</b><br/>           Maximum value of SAR (measured) = 0.532 W/kg</p> |                 |
|  <p>0 dB = 0.532 W/kg = -2.74 dBW/kg</p>   |                 |

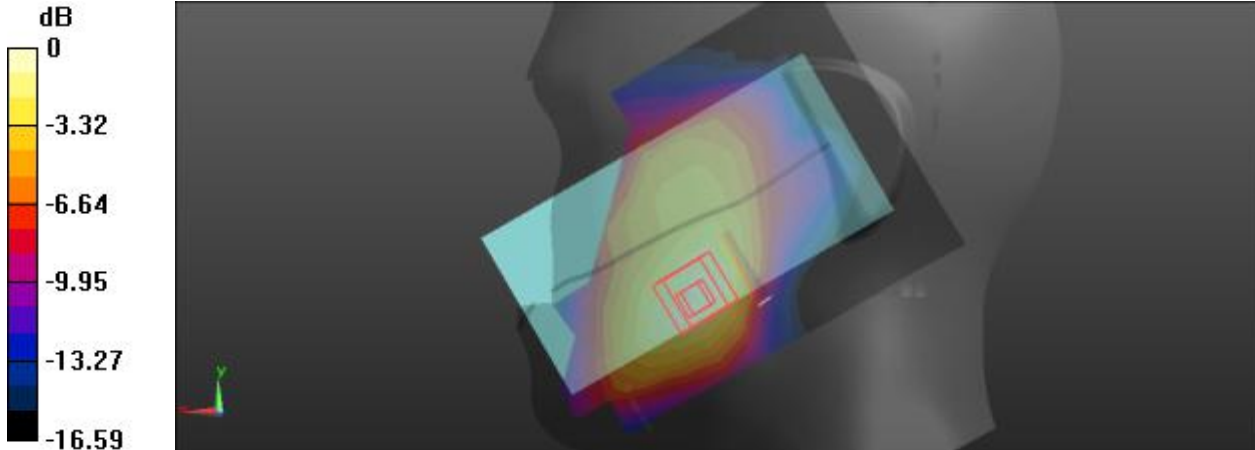
| FLAT  | Towards ground |
|---|----------------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section  |                |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Area Scan (9x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.748 W/kg</p> <p><b>Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 12.69 V/m; Power Drift = 0.12 dB<br/>                     Peak SAR (extrapolated) = 1.30 W/kg<br/> <b>SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.462 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.860 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p><b>dB</b></p> <p>0<br/>-3.07<br/>-6.13<br/>-9.20<br/>-12.26<br/>-15.33</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.860 W/kg = -0.66 dBW/kg</p> |                |

| FLAT   | EDGE2 |
|--|-------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 2/Area Scan (6x15x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.419 W/kg</p> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 12.32 V/m; Power Drift = 0.12 dB<br/>                     Peak SAR (extrapolated) = 0.716 W/kg<br/> <b>SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.273 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.497 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p><b>dB</b></p>  <p>0<br/>-2.69<br/>-5.39<br/>-8.08<br/>-10.78<br/>-13.47</p> </div> <div>  </div> </div> <p style="text-align: center;">0 dB = 0.497 W/kg = -3.04 dBW/kg</p> |       |

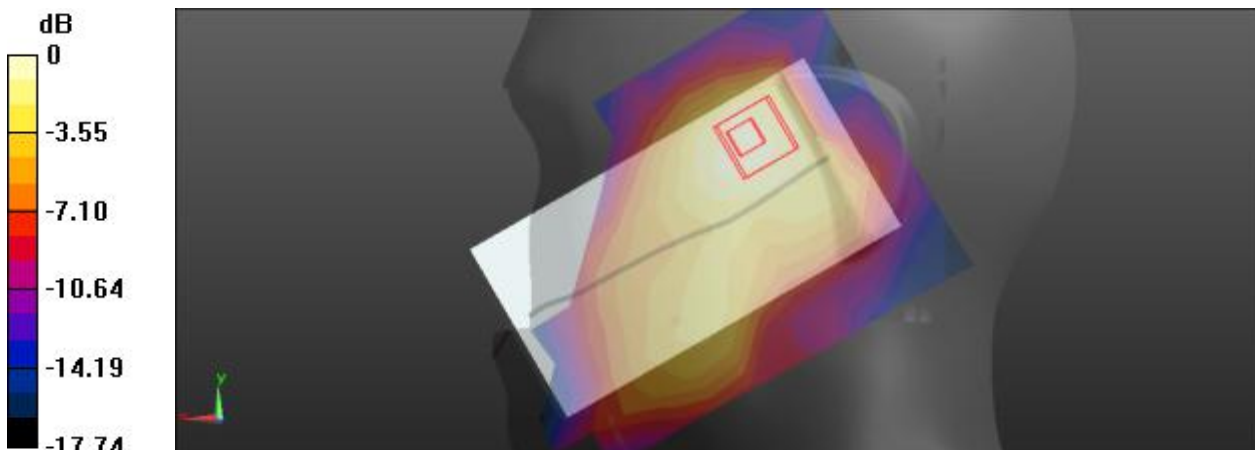
| FLAT   | EDGE3 |
|--|-------|
| <p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>  |       |
| <p>DASY5 Configuration:</p>  |       |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 3/Area Scan (6x15x1):</b><br/>Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.135 W/kg</p> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 7.485 V/m; Power Drift = -0.01 dB<br/>Peak SAR (extrapolated) = 0.182 W/kg<br/><b>SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.064 W/kg</b><br/>Maximum value of SAR (measured) = 0.131 W/kg</p> |       |
|  <p>0 dB = 0.131 W/kg = -8.83 dBW/kg</p>   |       |

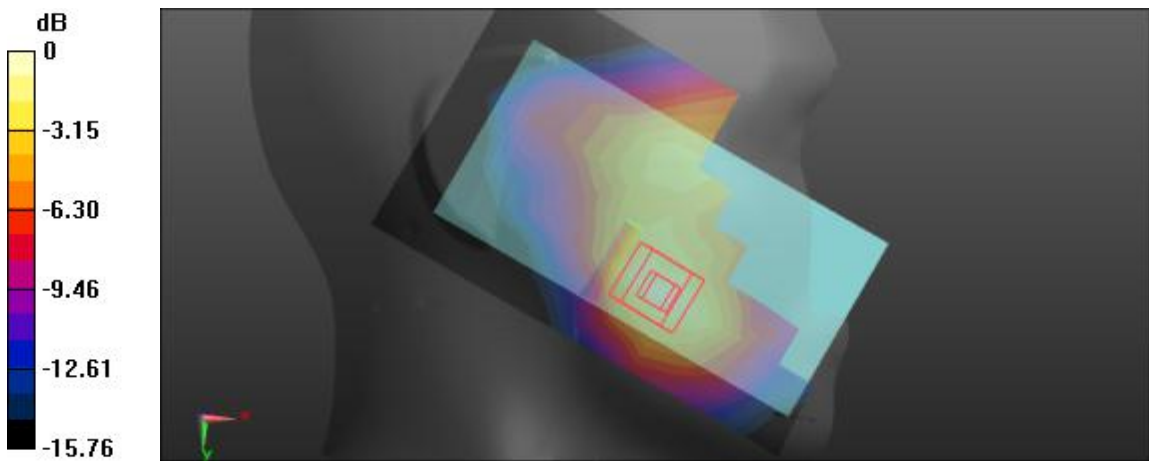
| FLAT  | EDGE4 |
|---|-------|
| Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896<br>Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section  |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 4/Area Scan (6x15x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.178 W/kg</p> <p><b>Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 6.377 V/m; Power Drift = 0.17 dB<br/>                     Peak SAR (extrapolated) = 0.252 W/kg<br/> <b>SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.107 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.182 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>dB</p> <p>0<br/>-2.46<br/>-4.92<br/>-7.38<br/>-9.84<br/>-12.30</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.182 W/kg = -7.40 dBW/kg</p> |       |

**WCDMA Band 2**

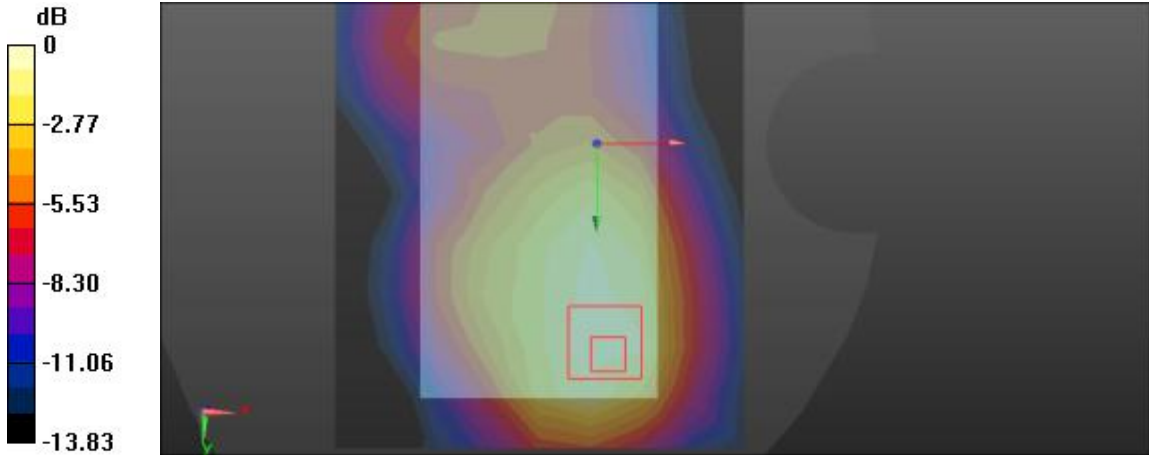
| Left Side   | Cheek |
|---|-------|
| <p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Left Section</p>  |       |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band2 Left/wcdma band2 HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.392 W/kg</p> <p><b>Head-Section HSL wcdma band2 Left/wcdma band2 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 4.210 V/m; Power Drift = 0.22 dB<br/>Peak SAR (extrapolated) = 0.599 W/kg<br/><b>SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.225 W/kg</b><br/>Maximum value of SAR (measured) = 0.404 W/kg</p> |       |
|  <p>0 dB = 0.404 W/kg = -3.94 dBW/kg</p>  |       |



| Left Side   | Tilt |
|---|------|
| <p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Left Section</p>  |      |
| <p>DASY5 Configuration:</p>   |      |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band2 Left/wcdma band2 HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.124 W/kg</p> <p><b>Head-Section HSL wcdma band2 Left/wcdma band2 HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 7.227 V/m; Power Drift = 0.13 dB<br/>Peak SAR (extrapolated) = 0.192 W/kg<br/><b>SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.080 W/kg</b><br/>Maximum value of SAR (measured) = 0.136 W/kg</p> |      |
|  <p>0 dB = 0.136 W/kg = -8.66 dBW/kg</p>  |      |

| Right Side  | Cheek |
|---|-------|
| Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.74$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Right Section   |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> |       |
| <b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.264 W/kg  |       |
| <b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 3.458 V/m; Power Drift = 0.00 dB<br>Peak SAR (extrapolated) = 0.380 W/kg<br><b>SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.152 W/kg</b><br>Maximum value of SAR (measured) = 0.272 W/kg  |       |
|  <p style="text-align: center;">0 dB = 0.272 W/kg = -5.65 dBW/kg</p>  |       |

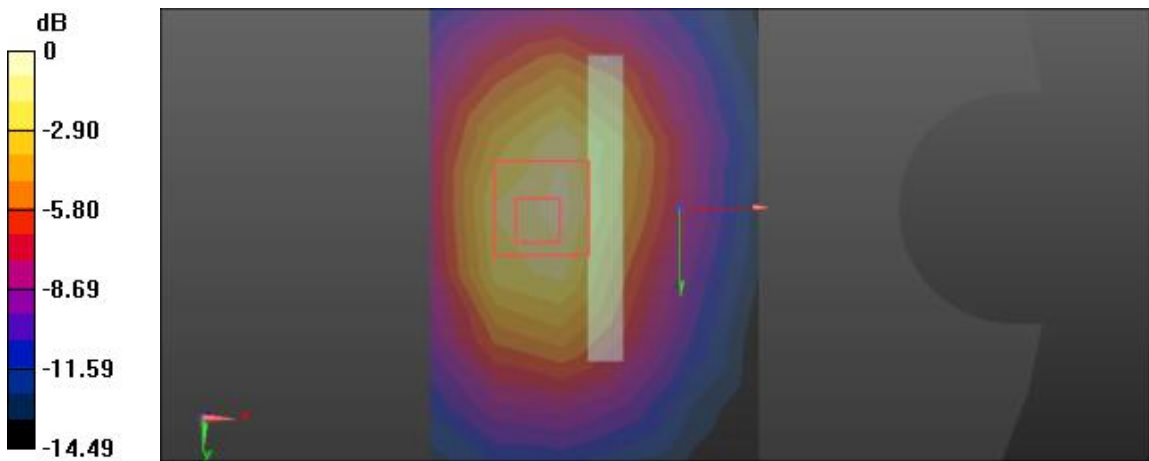
| Right Side   | Tilt |
|--|------|
| Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.45 \text{ S/m}$ ; $\epsilon_r = 39.74$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Right Section<br><br>DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: $dx=15\text{mm}$ , $dy=15\text{mm}$<br>Maximum value of SAR (measured) = 0.0881 W/kg<br><b>Head-Section HSL wcdma band2 Right/wcdma band2 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: $dx=5\text{mm}$ , $dy=5\text{mm}$ , $dz=5\text{mm}$<br>Reference Value = 6.343 V/m; Power Drift = 0.21 dB<br>Peak SAR (extrapolated) = 0.129 W/kg<br><b>SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.052 W/kg</b><br>Maximum value of SAR (measured) = 0.0953 W/kg |      |
| <p style="text-align: center;">0 dB = 0.0953 W/kg = -10.21 dBW/kg</p>  |      |

| FLAT(VIOCE)   | Towards phantom |
|---|-----------------|
| Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section  |                 |
| DASY5 Configuration:  |                 |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.461 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 9.598 V/m; Power Drift = -0.07 dB<br/>                     Peak SAR (extrapolated) = 0.794 W/kg<br/> <b>SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.276 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.488 W/kg</p> |                 |
|  <p>0 dB = 0.488 W/kg = -3.12 dBW/kg</p>  |                 |

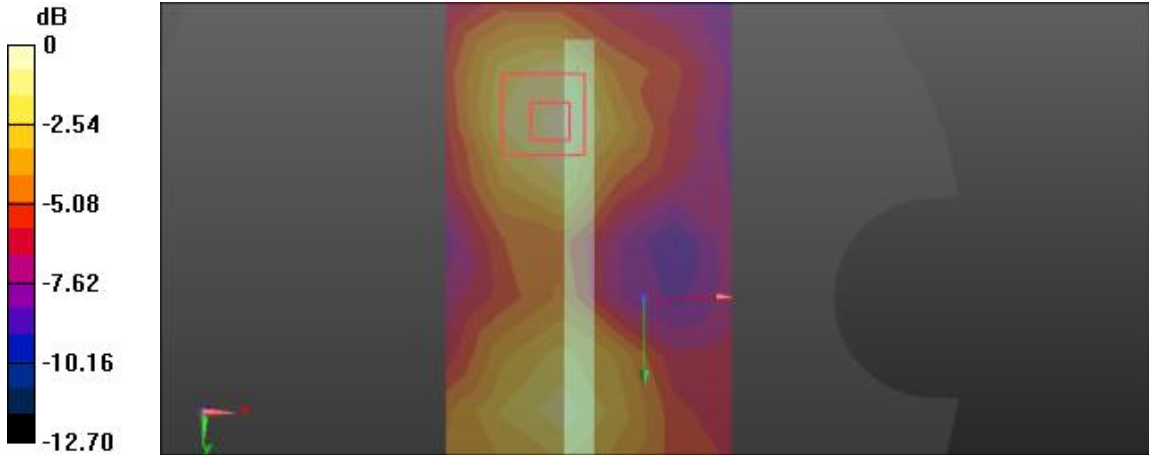
| FLAT(VIOCE)  | Towards ground |
|--|----------------|
| Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                |
| DASY5 Configuration:   |                |
| <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.637 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 9.305 V/m; Power Drift = -0.02 dB<br/>           Peak SAR (extrapolated) = 1.01 W/kg<br/> <b>SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.315 W/kg</b><br/>           Maximum value of SAR (measured) = 0.632 W/kg</p> |                |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.20<br/>-6.41<br/>-9.61<br/>-12.82<br/>-16.02</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.632 W/kg = -1.99 dBW/kg</p>   |                |

| FLAT(DATA)   | Towards phantom |
|--|-----------------|
| Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                 |
| DASY5 Configuration:   |                 |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.403 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 8.642 V/m; Power Drift = 0.08 dB<br/>                     Peak SAR (extrapolated) = 0.736 W/kg<br/> <b>SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.241 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.457 W/kg</p> |                 |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.39<br/>-6.79<br/>-10.18<br/>-13.58<br/>-16.97</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.457 W/kg = -3.40 dBW/kg</p>  |                 |

| FLAT(DATA)   | Towards ground |
|--|----------------|
| Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                |
| DASY5 Configuration:   |                |
| <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.628 W/kg</p> <p><b>Flat-Section MSL wcdma band2 TG&amp;TP/wcdma band2 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 8.611 V/m; Power Drift = 0.14 dB<br/>           Peak SAR (extrapolated) = 0.999 W/kg<br/> <b>SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.314 W/kg</b><br/>           Maximum value of SAR (measured) = 0.633 W/kg</p> |                |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.25<br/>-6.50<br/>-9.75<br/>-13.00<br/>-16.25</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.633 W/kg = -1.99 dBW/kg</p>   |                |

| FLAT   | EDGE2 |
|--|-------|
| <p>Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.542 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 13.82 V/m; Power Drift = 0.03 dB<br/>                     Peak SAR (extrapolated) = 0.893 W/kg<br/> <b>SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.313 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.593 W/kg</p> |       |
|  <p style="text-align: center;">0 dB = 0.593 W/kg = -2.27 dBW/kg</p>   |       |



| FLAT   | EDGE3 |
|--|-------|
| Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |       |
| DASY5 Configuration:   |       |
| <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.0766 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 4.139 V/m; Power Drift = 0.07 dB<br/>           Peak SAR (extrapolated) = 0.131 W/kg<br/> <b>SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.051 W/kg</b><br/>           Maximum value of SAR (measured) = 0.0853 W/kg</p> |       |
|  <p>0 dB = 0.0853 W/kg = -10.69 dBW/kg</p>   |       |

| FLAT  | EDGE4 |
|---|-------|
| Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ S/m; $\epsilon_r = 51.14$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section  |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.392 W/kg</p> <p><b>Flat-Section MSL wcdma band2 HOT/wcdma band2 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 9.672 V/m; Power Drift = 0.18 dB<br/>                     Peak SAR (extrapolated) = 0.604 W/kg<br/> <b>SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.234 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.415 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p><b>dB</b></p> <p>0<br/>-2.45<br/>-4.90<br/>-7.34<br/>-9.79<br/>-12.24</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.415 W/kg = -3.82 dBW/kg</p> |       |

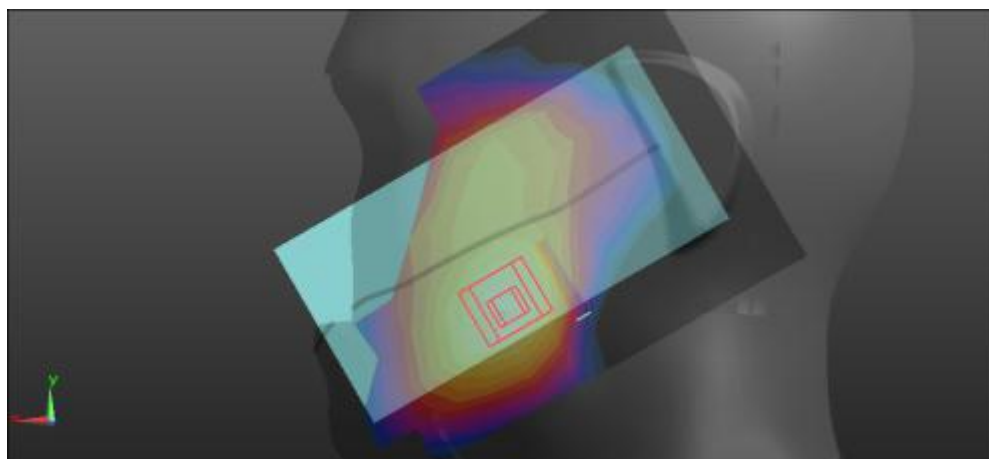
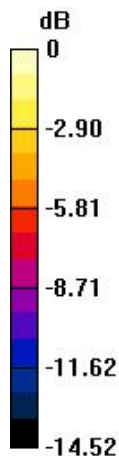
**WCDMA Band 4**

| Left Side | Cheek |
|-----------|-------|
|-----------|-------|

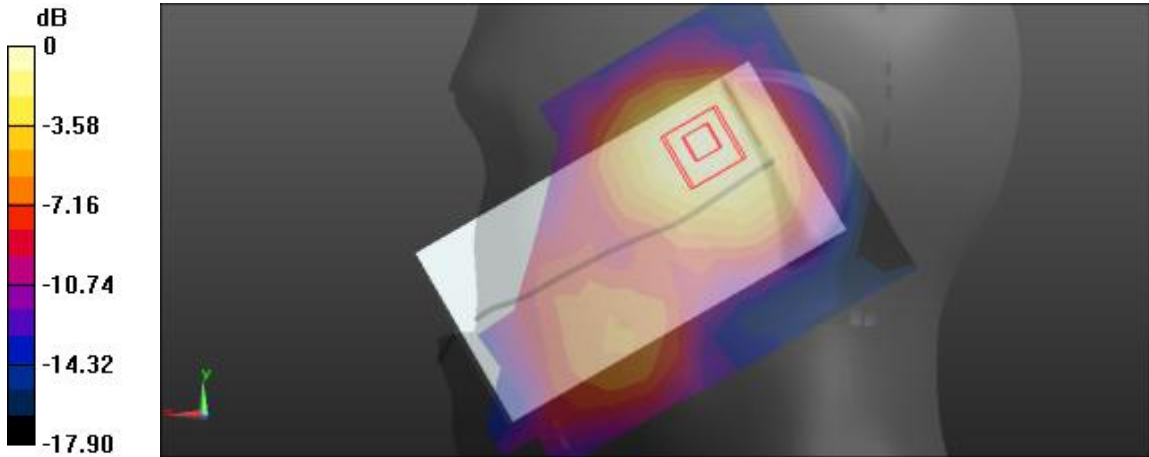
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434  
 Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.304$  S/m;  $\epsilon_r = 40.408$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

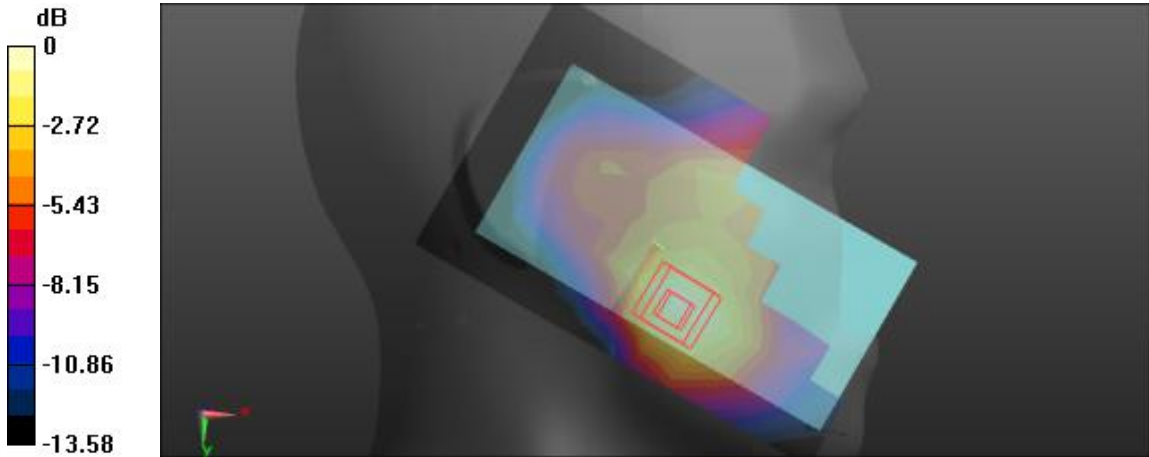
DASY5 Configuration:

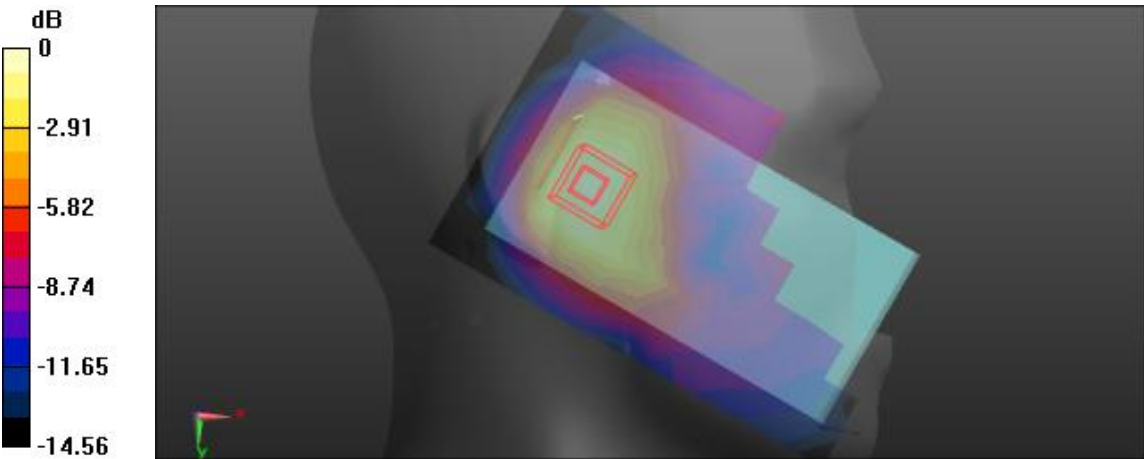
- Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE4 Sn720; Calibrated: 2016/10/31
  - Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
  - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
- Head-Section HSL wcdma band4 Left/wcdma band4 HSL touch M/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.345 W/kg
- Head-Section HSL wcdma band4 Left/wcdma band4 HSL touch M/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 5.368 V/m; Power Drift = 0.17 dB  
 Peak SAR (extrapolated) = 0.529 W/kg  
**SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.230 W/kg**  
 Maximum value of SAR (measured) = 0.379 W/kg

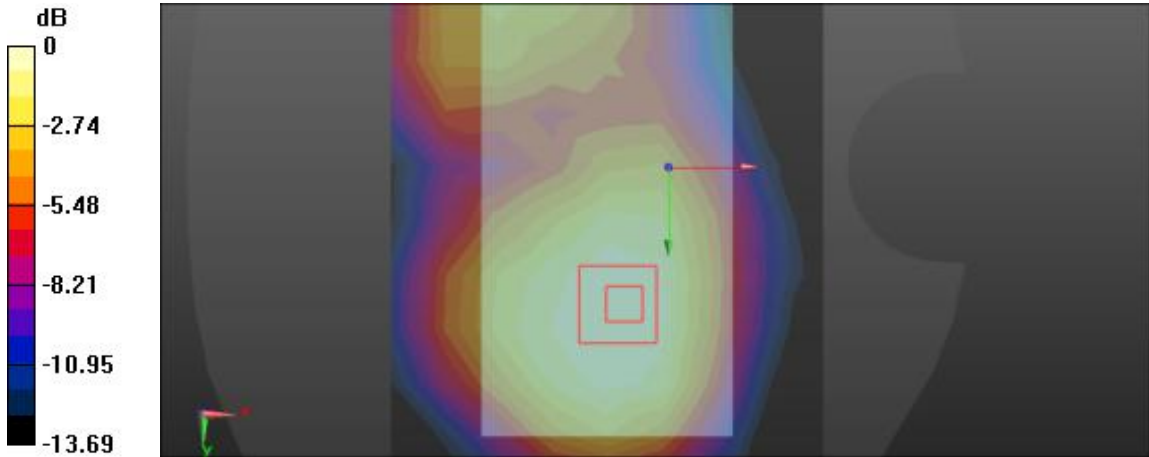


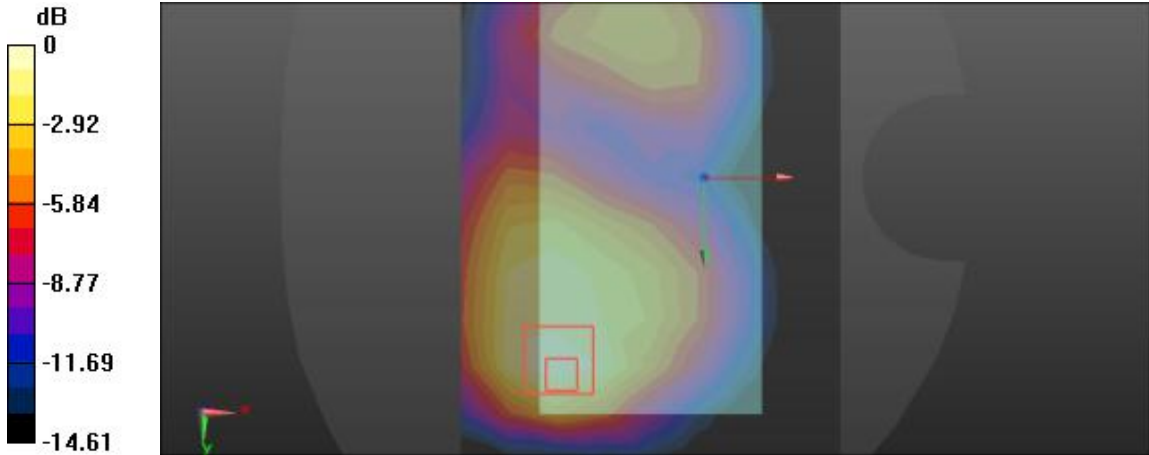
0 dB = 0.379 W/kg = -4.21 dBW/kg

| Left Side  | Tilt |
|--|------|
| Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434<br>Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section   |      |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.209 W/kg<br><b>Head-Section HSL wcdma band4 Left/wcdma band4 HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 10.23 V/m; Power Drift = 0.02 dB<br>Peak SAR (extrapolated) = 0.275 W/kg<br><b>SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.133 W/kg</b><br>Maximum value of SAR (measured) = 0.213 W/kg |      |
|  <p>0 dB = 0.213 W/kg = -6.72 dBW/kg</p>   |      |

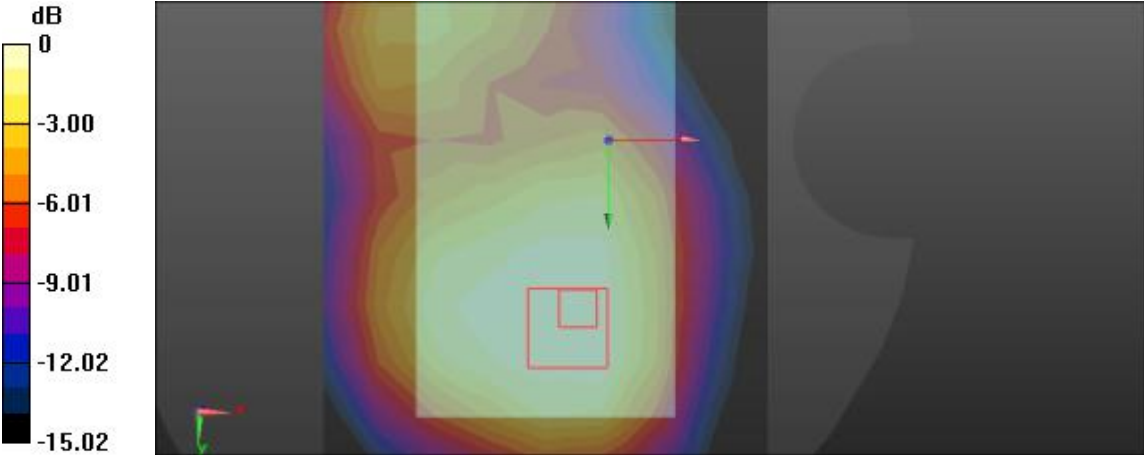
| Right Side  | Cheek |
|---|-------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434<br/>                     Medium parameters used (interpolated): f = 1732.6 MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.260 W/kg</p> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 5.602 V/m; Power Drift = 0.07 dB<br/>                     Peak SAR (extrapolated) = 0.361 W/kg<br/> <b>SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.157 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.265 W/kg</p> |       |
|  <p style="text-align: center;">0 dB = 0.265 W/kg = -5.77 dBW/kg</p>  |       |

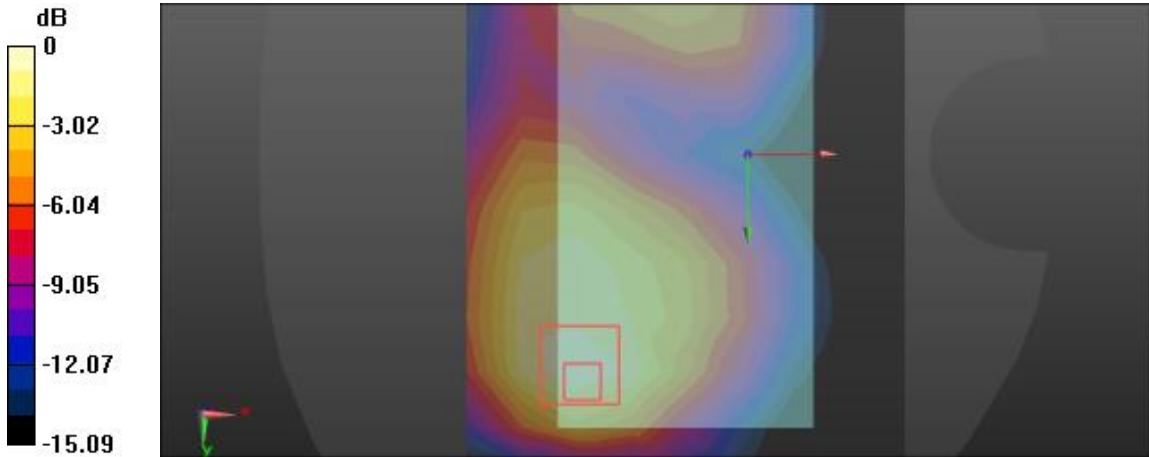
| Right Side  | Tilt |
|---|------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434<br/>                     Medium parameters used (interpolated): <math>f = 1732.6</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p>  |      |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.168 W/kg</p> <p><b>Head-Section HSL wcdma band4 Right/wcdma band4 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 9.780 V/m; Power Drift = -0.02 dB<br/>                     Peak SAR (extrapolated) = 0.250 W/kg<br/> <b>SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.110 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.184 W/kg</p> |      |
|  <p>0 dB = 0.184 W/kg = -7.35 dBW/kg</p>  |      |

| FLAT(VIOCE)   | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434<br/>           Medium parameters used (interpolated): f = 1732.6 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p>   |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.399 W/kg</p> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 10.97 V/m; Power Drift = -0.19 dB<br/>           Peak SAR (extrapolated) = 0.573 W/kg<br/> <b>SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.251 W/kg</b><br/>           Maximum value of SAR (measured) = 0.404 W/kg</p> |                 |
|  <p>0 dB = 0.404 W/kg = -3.94 dBW/kg</p>  |                 |

| FLAT(VIOCE )  | Towards ground |
|---|----------------|
| Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434<br>Medium parameters used (interpolated): f = 1732.6 MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.725 W/kg<br><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 6.566 V/m; Power Drift = 0.09 dB<br>Peak SAR (extrapolated) = 1.14 W/kg<br><b>SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.389 W/kg</b><br>Maximum value of SAR (measured) = 0.730 W/kg |                |
|  <p>0 dB = 0.730 W/kg = -1.37 dBW/kg</p>  |                |



| FLAT(DATA)  | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434<br/>           Medium parameters used (interpolated): f = 1732.6 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p>   |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.413 W/kg<br/> <b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 9.740 V/m; Power Drift = -0.05 dB<br/>           Peak SAR (extrapolated) = 0.655 W/kg<br/> <b>SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.264 W/kg</b><br/>           Maximum value of SAR (measured) = 0.428 W/kg</p> |                 |
|  <p>0 dB = 0.428 W/kg = -3.69 dBW/kg</p>  |                 |

| FLAT(DATA)  | Towards ground |
|---|----------------|
| Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434<br>Medium parameters used (interpolated): f = 1732.6 MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.760 W/kg<br><b>Flat-Section MSL wcdma band4 TG&amp;TP/wcdma band4 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 6.521 V/m; Power Drift = 0.09 dB<br>Peak SAR (extrapolated) = 1.19 W/kg<br><b>SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.420 W/kg</b><br>Maximum value of SAR (measured) = 0.768 W/kg |                |
|  <p>0 dB = 0.768 W/kg = -1.15 dBW/kg</p>  |                |

**FLAT**

**EDGE2**

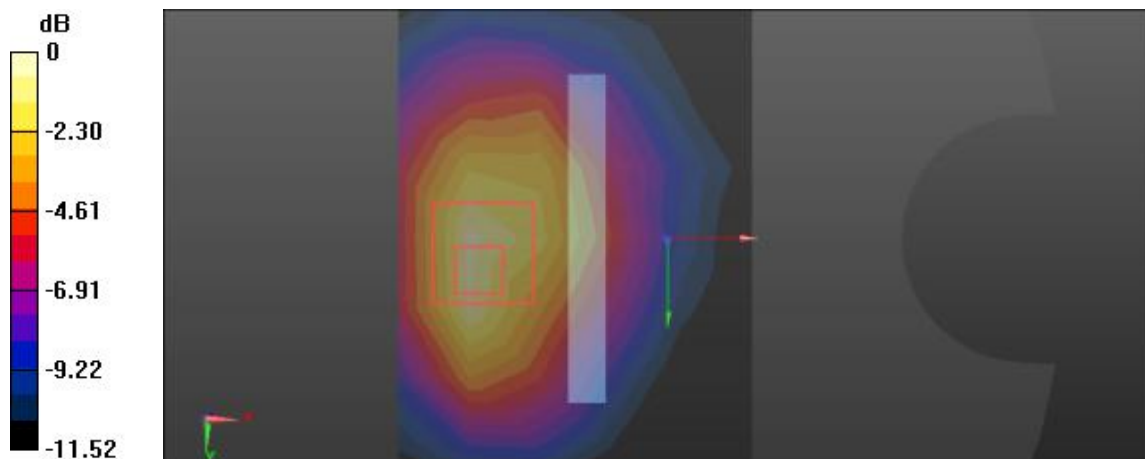
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434  
Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.404$  S/m;  $\epsilon_r = 51.622$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY5 Configuration:

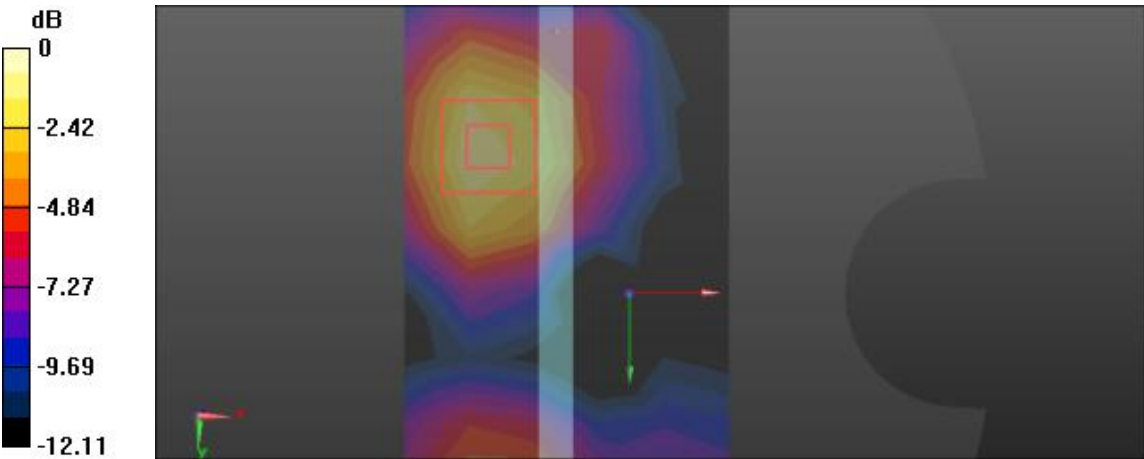
- Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

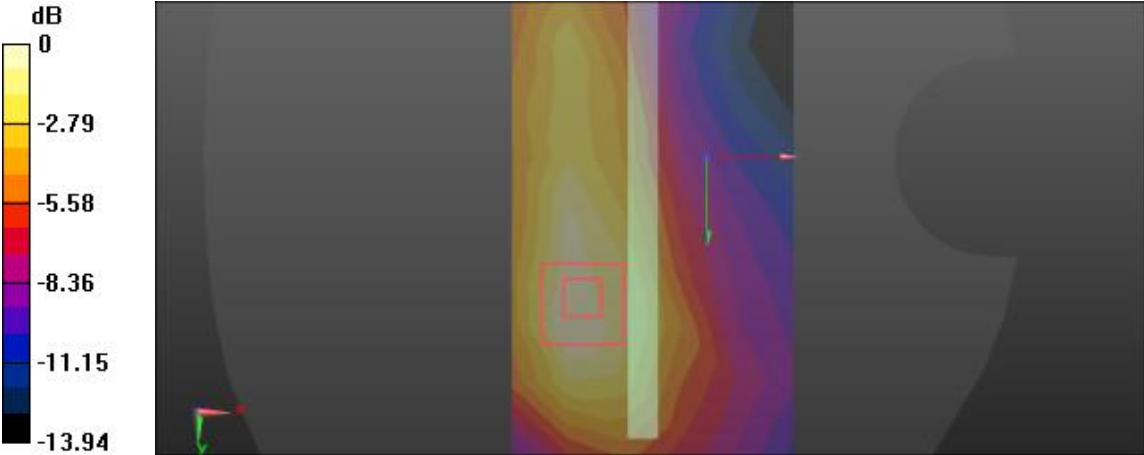
**Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 2/Area Scan (6x11x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.372 W/kg

**Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 11.17 V/m; Power Drift = 0.18 dB  
Peak SAR (extrapolated) = 0.558 W/kg  
**SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.232 W/kg**  
Maximum value of SAR (measured) = 0.413 W/kg

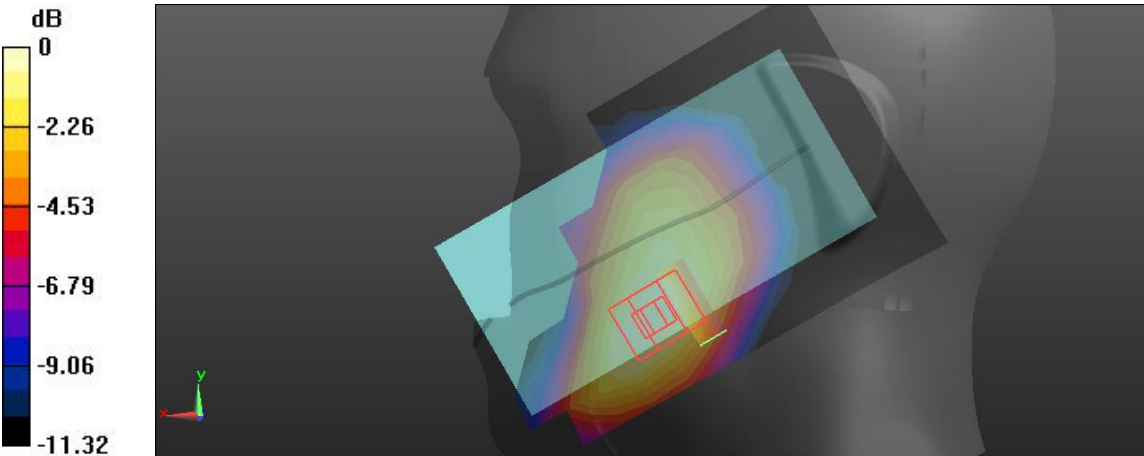


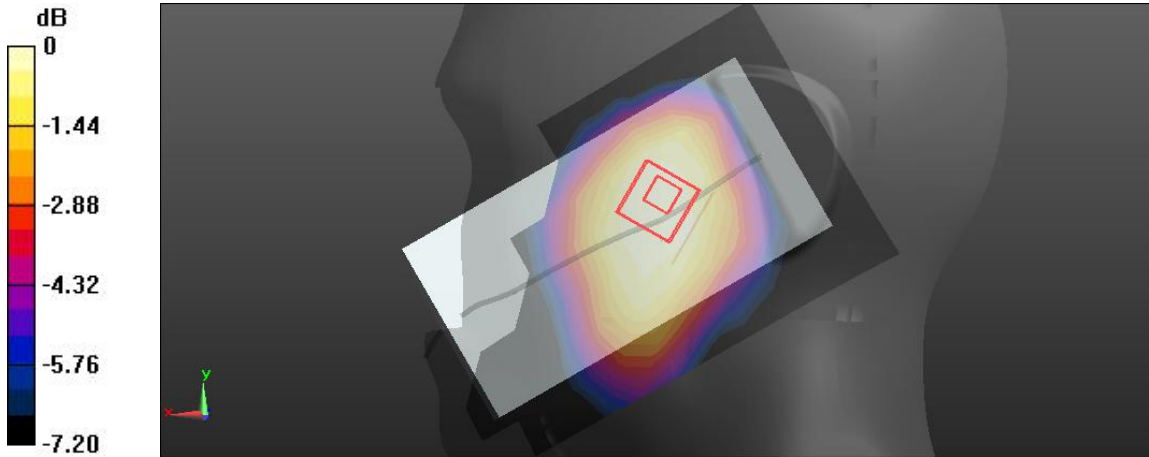
0 dB = 0.413 W/kg = -3.84 dBW/kg

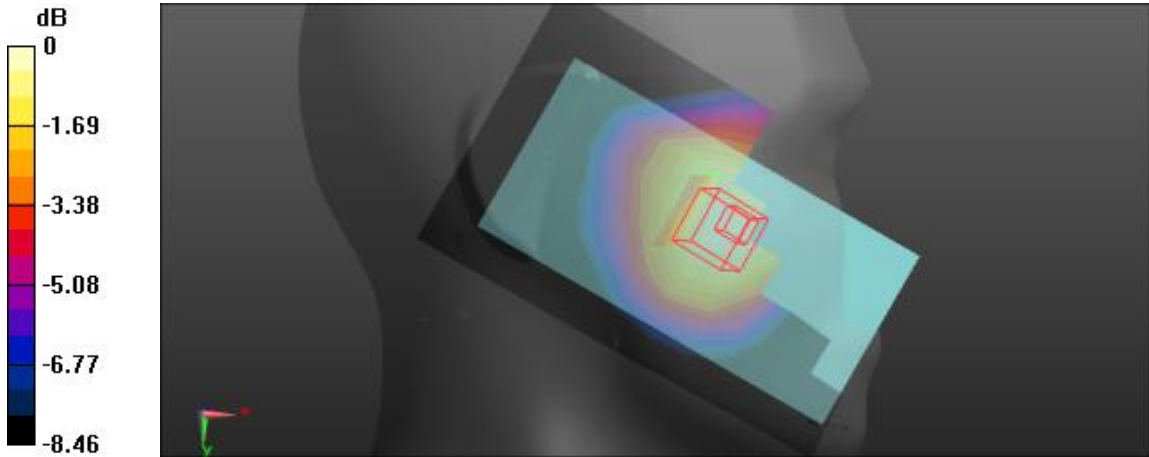
| FLAT   | EDGE3 |
|--|-------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz;Duty Cycle: 1:1.95434<br/>Medium parameters used (interpolated): f = 1732.6 MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>  |       |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.124 W/kg</p> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 3.861 V/m; Power Drift = -0.06 dB<br/>Peak SAR (extrapolated) = 0.206 W/kg<br/><b>SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.082 W/kg</b><br/>Maximum value of SAR (measured) = 0.147 W/kg</p> |       |
|  <p>0 dB = 0.147 W/kg = -8.33 dBW/kg</p>   |       |

| FLAT  | EDGE4 |
|---|-------|
| Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434<br>Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section<br><br>DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.226 W/kg</p> <p><b>Flat-Section MSL wcdma band4 HOT/wcdma band4 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 6.757 V/m; Power Drift = 0.09 dB<br/>                     Peak SAR (extrapolated) = 0.323 W/kg<br/> <b>SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.115 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.207 W/kg</p> |       |
|  <p style="text-align: center;">0 dB = 0.207 W/kg = -6.84 dBW/kg</p>  |       |

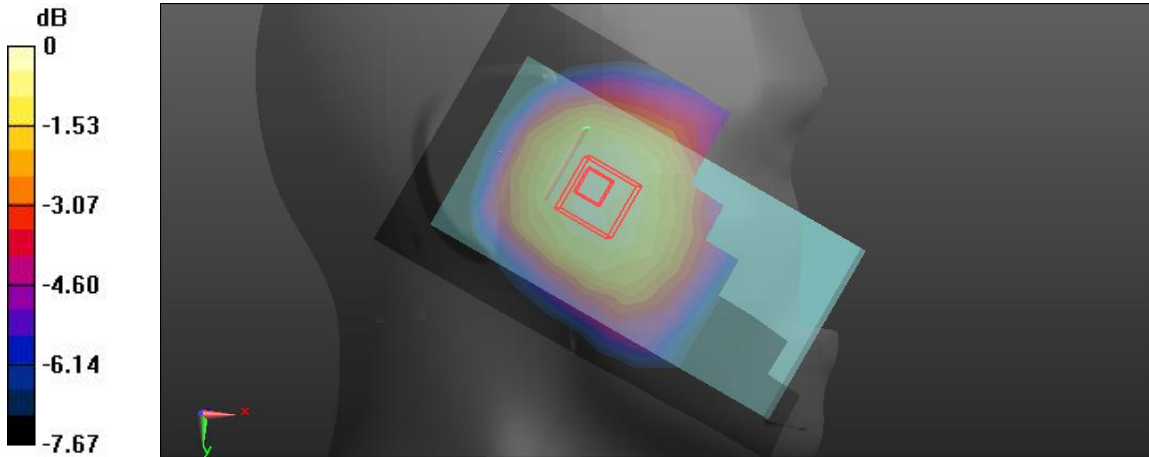
### WCDMA Band 5

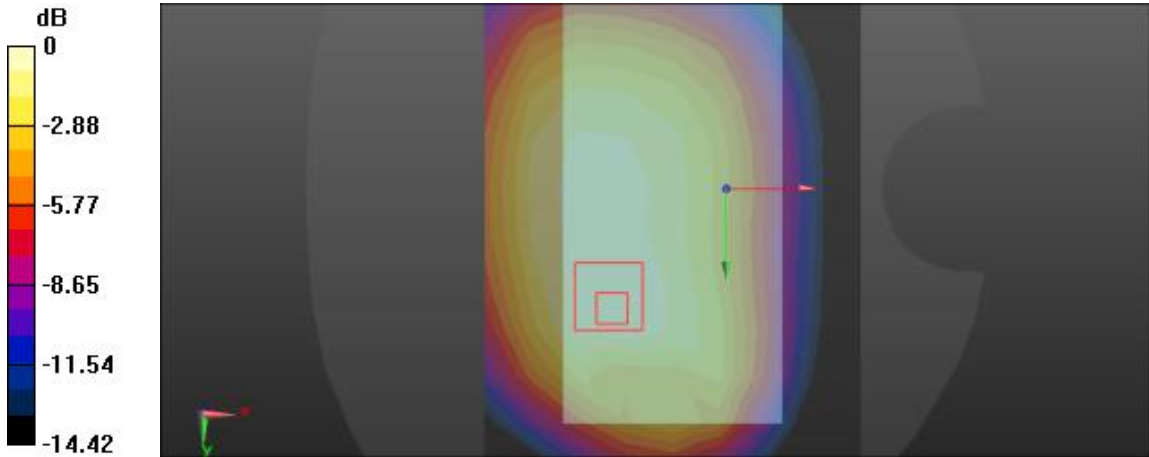
| Left Side   | Cheek |
|---|-------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434<br/>           Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Left Section</p>  |       |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.150 W/kg</p> <p><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 2.322 V/m; Power Drift = -0.05 dB<br/>           Peak SAR (extrapolated) = 0.180 W/kg<br/> <b>SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.096 W/kg</b><br/>           Maximum value of SAR (measured) = 0.152 W/kg</p> |       |
|  <p>0 dB = 0.152 W/kg = -8.18 dBW/kg</p>  |       |

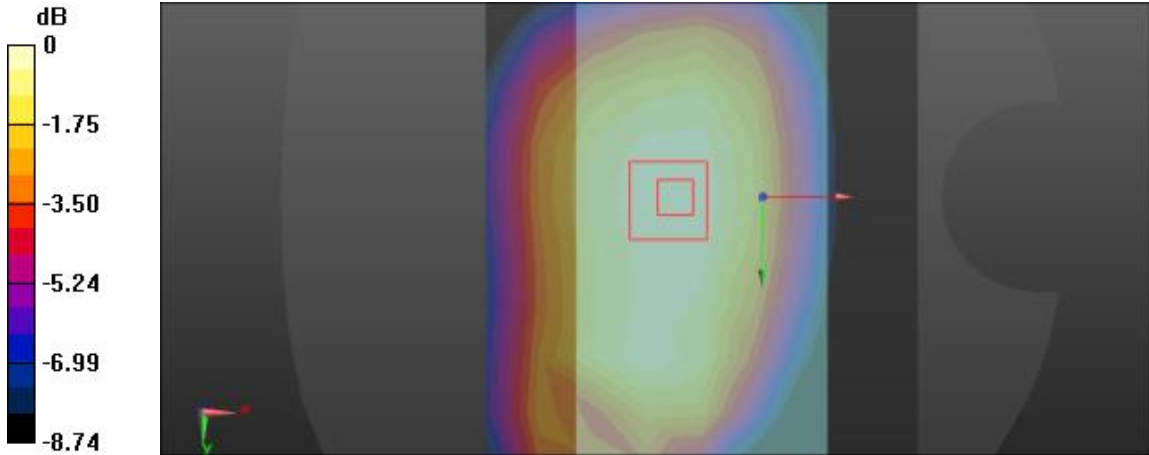
| Left Side   | Tilt |
|---|------|
| Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434<br>Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section   |      |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.0711 W/kg<br><b>Head-Section HSL wcdma band5 Left/wcdma band5 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 4.678 V/m; Power Drift = 0.06 dB<br>Peak SAR (extrapolated) = 0.0790 W/kg<br><b>SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.052 W/kg</b><br>Maximum value of SAR (measured) = 0.0696 W/kg |      |
|  <p>0 dB = 0.0696 W/kg = -11.57 dBW/kg</p>  |      |

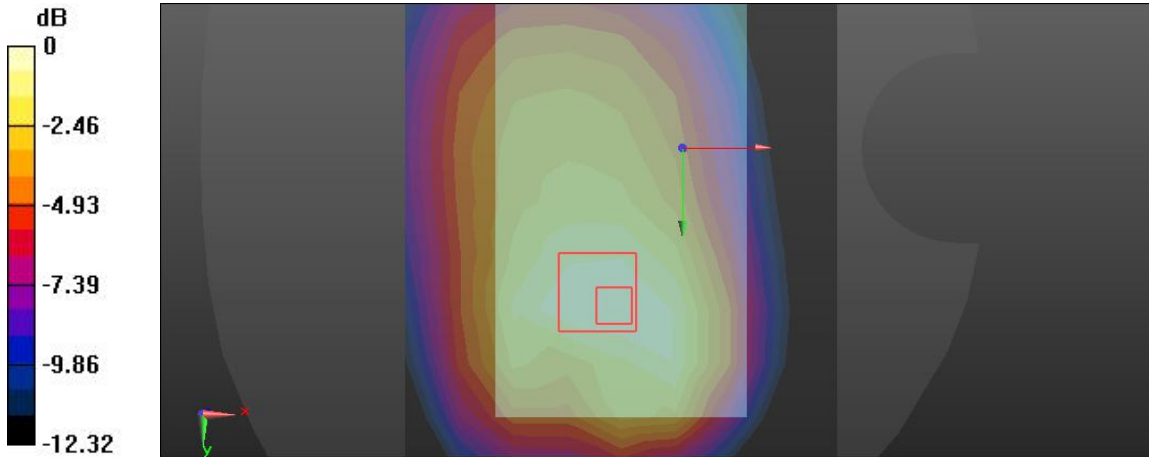
| Right Side   | Cheek |
|--|-------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434<br/>Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.478</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Right Section</p>  |       |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.142 W/kg</p> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 3.727 V/m; Power Drift = -0.07 dB<br/>Peak SAR (extrapolated) = 0.176 W/kg<br/><b>SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.111 W/kg</b><br/>Maximum value of SAR (measured) = 0.148 W/kg</p> |       |
|  <p>0 dB = 0.148 W/kg = -8.30 dBW/kg</p>   |       |

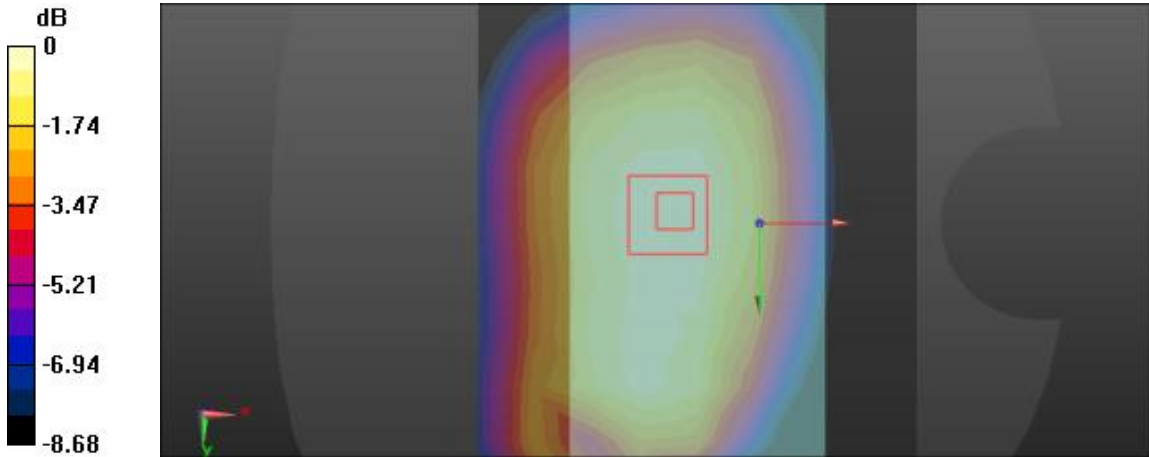


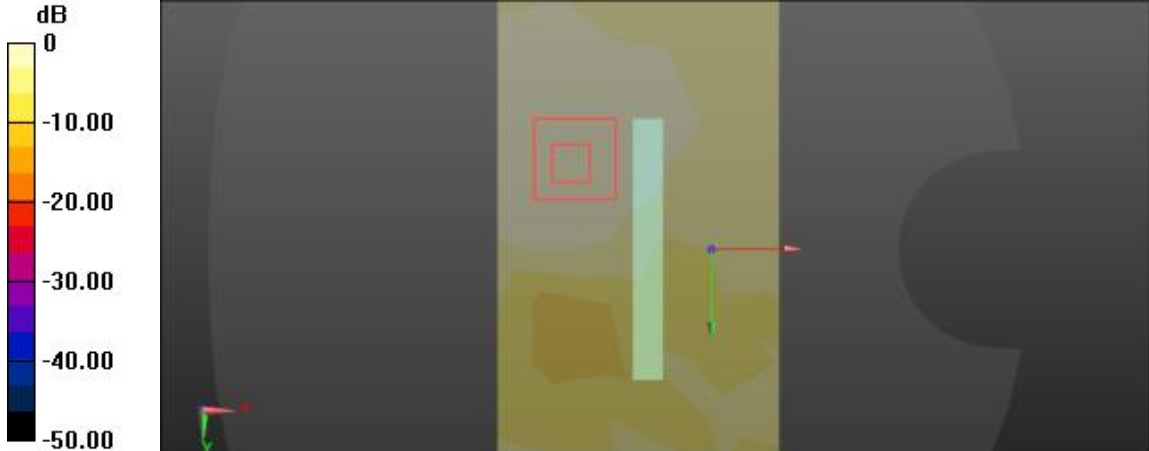
| Right Side  | Tilt |
|---|------|
| Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434<br>Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Right Section<br><br>DASY5 Configuration: <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> |      |
| <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL tilt/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0989 W/kg</p> <p><b>Head-Section HSL wcdma band5 Right/wcdma band5 HSL tilt/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 6.516 V/m; Power Drift = 0.04 dB<br/>                     Peak SAR (extrapolated) = 0.120 W/kg<br/> <b>SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.078 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.102 W/kg</p>  |      |
|  <p style="text-align: center;">0 dB = 0.102 W/kg = -9.91 dBW/kg</p>  |      |

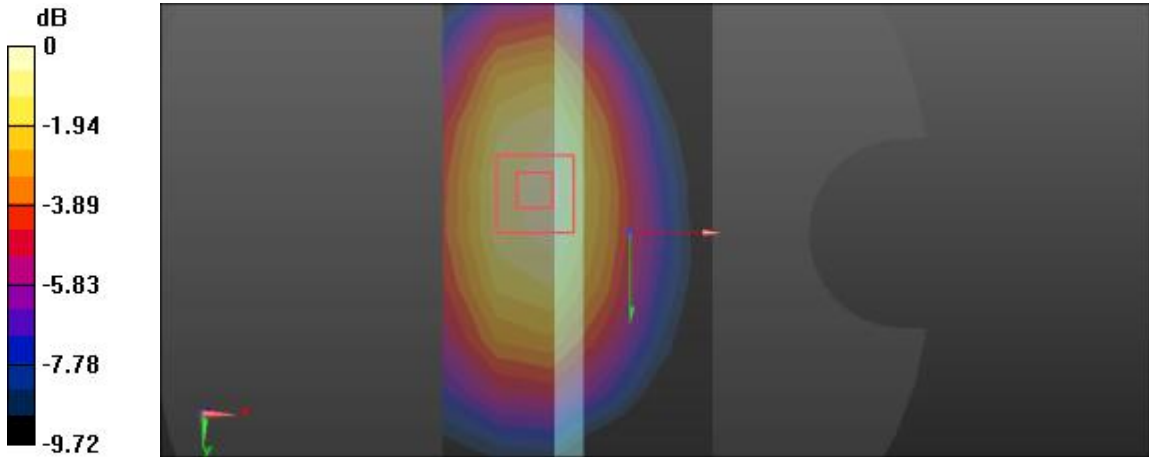
| FLAT(VIOCE)  | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434<br/>Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>   |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.280 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 15.18 V/m; Power Drift = 0.06 dB<br/>Peak SAR (extrapolated) = 0.377 W/kg<br/><b>SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.205 W/kg</b><br/>Maximum value of SAR (measured) = 0.298 W/kg</p> |                 |
|  <p>0 dB = 0.298 W/kg = -5.26 dBW/kg</p>   |                 |

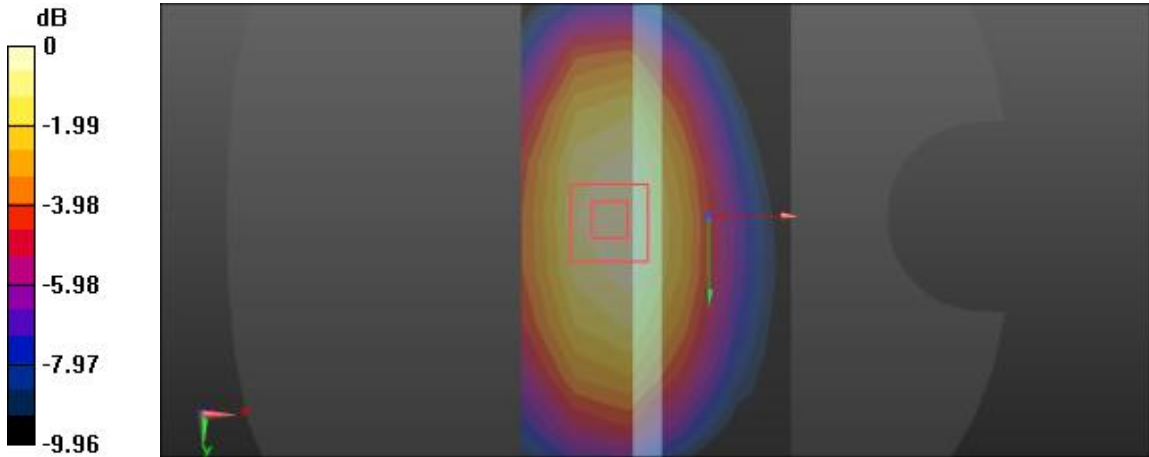
| FLAT(VIOCE )   | Towards ground |
|--|----------------|
| Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434<br>Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                |
| DASY5 Configuration:   |                |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.346 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG voice M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 19.03 V/m; Power Drift = -0.04 dB<br/>                     Peak SAR (extrapolated) = 0.437 W/kg<br/> <b>SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.253 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.352 W/kg</p> |                |
|  <p>0 dB = 0.352 W/kg = -4.53 dBW/kg</p>   |                |

| FLAT(DATA)  | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434<br/>Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>  |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.358 W/kg</p> <p><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TP DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 13.87 V/m; Power Drift = -0.07 dB<br/>Peak SAR (extrapolated) = 0.498 W/kg<br/><b>SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.223 W/kg</b><br/>Maximum value of SAR (measured) = 0.351 W/kg</p> |                 |
|  <p>0 dB = 0.351 W/kg = -4.55 dBW/kg</p>  |                 |

| FLAT(DATA)  | Towards ground |
|---|----------------|
| Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434<br>Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG DATA M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.343 W/kg<br><b>Flat-Section MSL wcdma band5 TG&amp;TP/wcdma band5 TG DATA M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 18.96 V/m; Power Drift = 0.00 dB<br>Peak SAR (extrapolated) = 0.435 W/kg<br><b>SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.252 W/kg</b><br>Maximum value of SAR (measured) = 0.351 W/kg |                |
|  <p>0 dB = 0.351 W/kg = -4.55 dBW/kg</p>  |                |

| FLAT  | EDGE2 |
|---|-------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz;Duty Cycle: 1:1.95434<br/>                     Medium parameters used (interpolated): f = 836.6 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0137 W/kg</p> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 2.266 V/m; Power Drift = 0.08 dB<br/>                     Peak SAR (extrapolated) = 0.0230 W/kg<br/> <b>SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00633 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0141 W/kg</p> <div style="display: flex; align-items: center;">  </div> <p style="text-align: center;">0 dB = 0.0141 W/kg = -18.51 dBW/kg</p> |       |
|   |       |

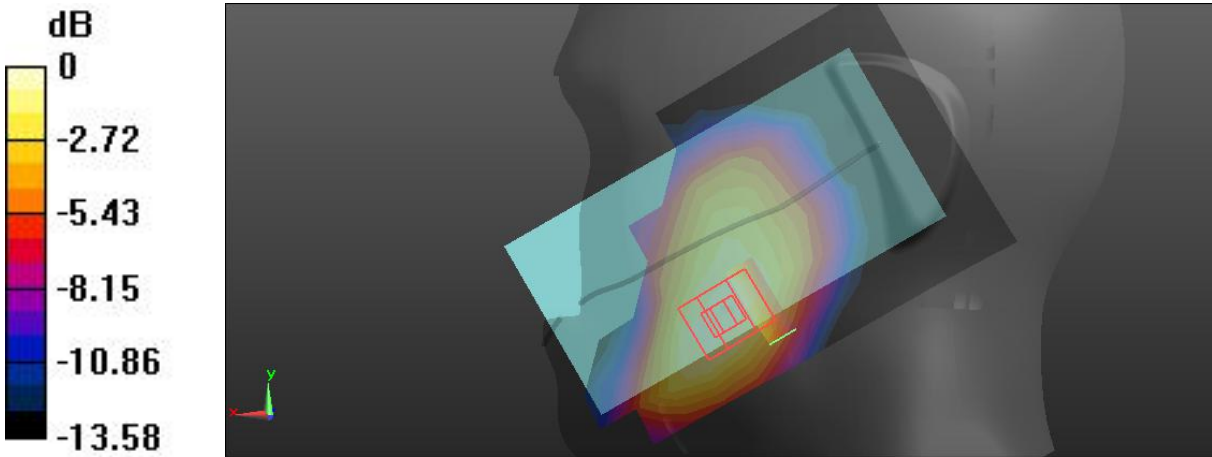
| FLAT  | EDGE3 |
|---|-------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434<br/>           Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.125 W/kg</p> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 10.61 V/m; Power Drift = -0.00 dB<br/>           Peak SAR (extrapolated) = 0.163 W/kg<br/> <b>SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.079 W/kg</b><br/>           Maximum value of SAR (measured) = 0.131 W/kg</p> |       |
|  <p>0 dB = 0.131 W/kg = -8.83 dBW/kg</p>  |       |

| FLAT  | EDGE4 |
|---|-------|
| <p>Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1.95434<br/>                     Medium parameters used (interpolated): <math>f = 836.6</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.858</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 3mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.123 W/kg<br/> <b>Flat-Section MSL wcdma band5 HOT/wcdma band5 10mm M edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 10.66 V/m; Power Drift = -0.17 dB<br/>                     Peak SAR (extrapolated) = 0.154 W/kg<br/> <b>SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.074 W/kg</b></p> |       |
|  <p>0 dB = 0.123 W/kg = -9.10 dBW/kg</p>  |       |

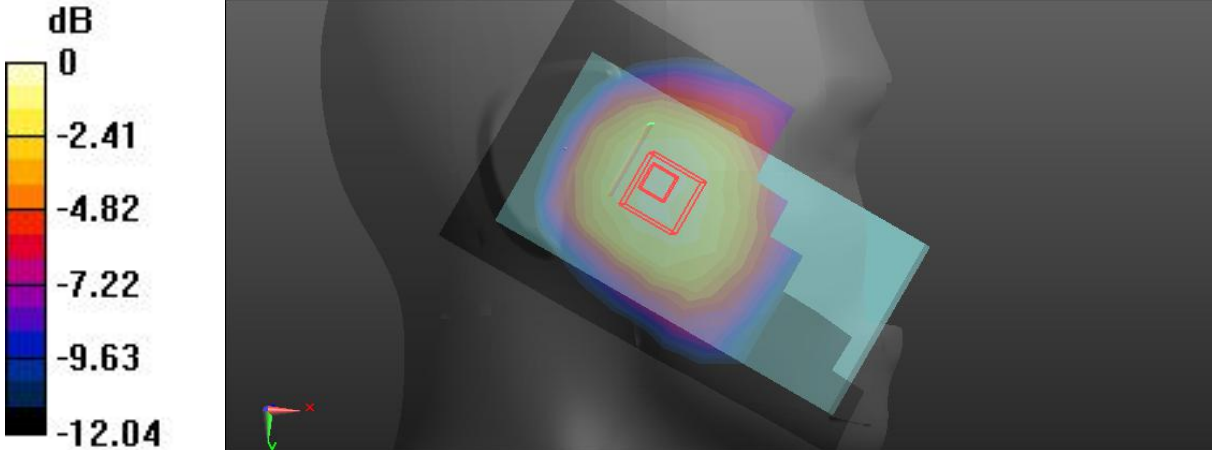


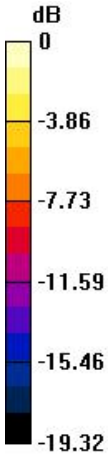
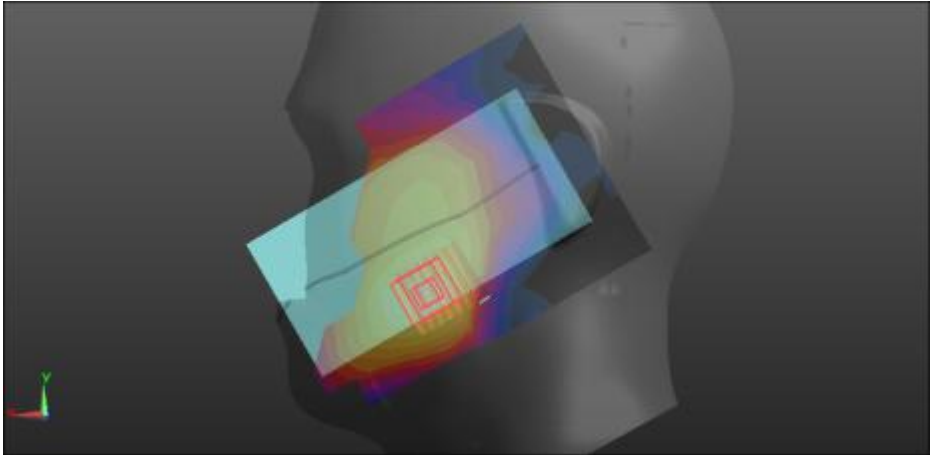
**LTE (Band 2 20BW-1RB-Low/Head)**

| Left Side   | Cheek |
|---|-------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Left Section</p>  |       |
| <p>DASY5 Configuration:</p>   |       |
| <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.441 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 4.549 V/m; Power Drift = -0.00 dB<br/>Peak SAR (extrapolated) = 0.745 W/kg<br/><b>SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.261 W/kg</b><br/>Maximum value of SAR (measured) = 0.484 W/kg</p> |       |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.99<br/>-5.98<br/>-8.96<br/>-11.95<br/>-14.94</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.484 W/kg = -3.15 dBW/kg</p>  |       |

| Left Side   | Tilt |
|---|------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Left Section</p>   |      |
| <p>DASY5 Configuration:</p>   |      |
| <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> |      |
| <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.115 W/kg</p>  |      |
| <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 8.223 V/m; Power Drift = 0.02 dB<br/>Peak SAR (extrapolated) = 0.163 W/kg<br/><b>SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.067 W/kg</b><br/>Maximum value of SAR (measured) = 0.116 W/kg</p>   |      |
|   |      |
| <p>0 dB = 0.116 W/kg = -9.36 dBW/kg</p>   |      |

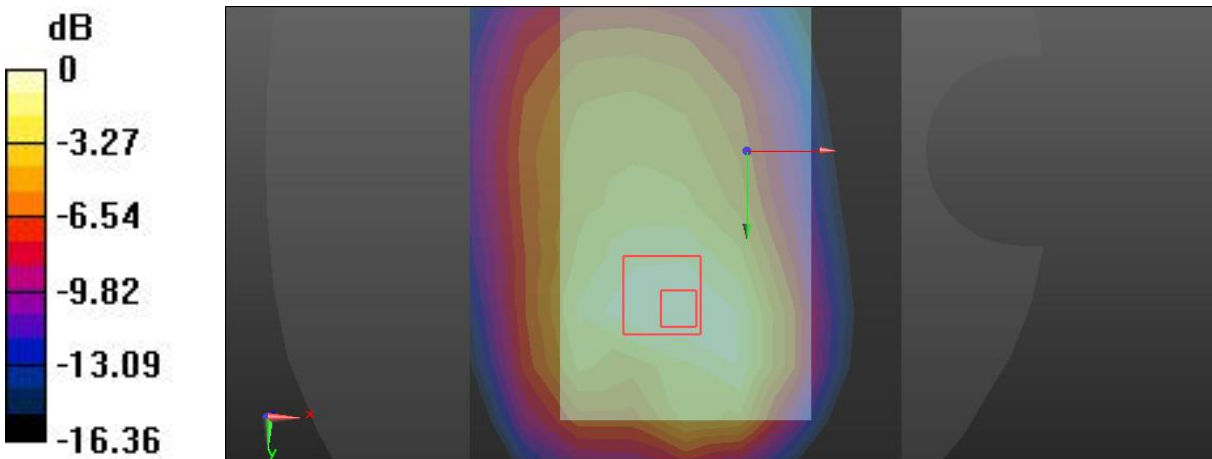
| Right Side   | Cheek |
|--|-------|
| <p>Communication System: UID 0, LTE band 02 (0); Frequency: 1860 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): f = 1860 MHz; <math>\sigma = 1.43</math> S/m; <math>\epsilon_r = 39.827</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch L/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.334 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch L/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 3.051 V/m; Power Drift = 0.07 dB<br/>                     Peak SAR (extrapolated) = 0.549 W/kg<br/> <b>SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.192 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.355 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p style="text-align: center;">dB</p> <p style="text-align: center;">0<br/>-3.89<br/>-7.79<br/>-11.68<br/>-15.58<br/>-19.47</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.355 W/kg = -4.50 dBW/kg</p> |       |

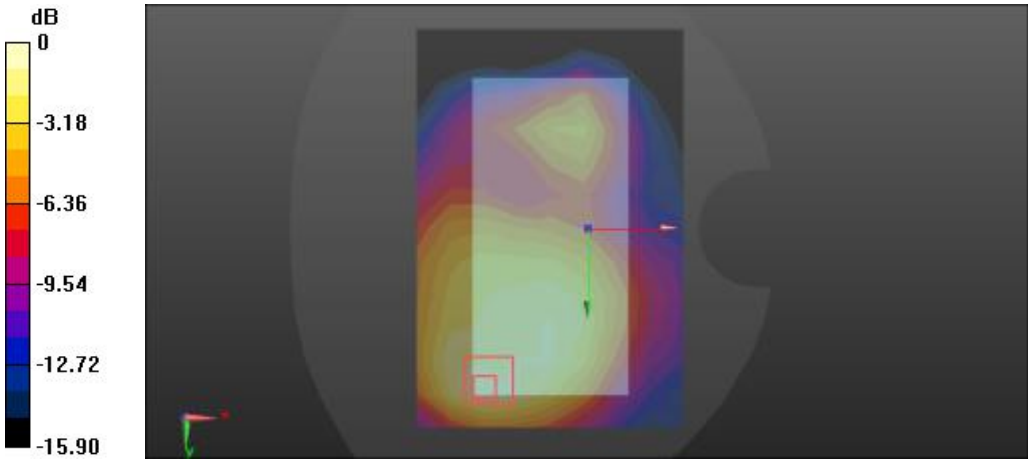
| Right Side  | Cheek |
|---|-------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Right Section</p>   |       |
| <p>DASY5 Configuration:</p>   |       |
| <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.183 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 4.262 V/m; Power Drift = -0.05 dB<br/>Peak SAR (extrapolated) = 0.298 W/kg<br/><b>SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.119 W/kg</b><br/>Maximum value of SAR (measured) = 0.202 W/kg</p> |       |
|  <p>0 dB = 0.202 W/kg = -6.95 dBW/kg</p>  |       |

| Right Side  | Cheek |
|---|-------|
| <p>Communication System: UID 0, LTE band 02 (0); Frequency: 1900 MHz;Duty Cycle: 1:1<br/>Medium parameters used: <math>f = 1900</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.75</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Left Section</p>  |       |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>   |       |
| <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch H/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.345 W/kg<br/><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 1RB Low HSL touch H/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 3.754 V/m; Power Drift = 0.08 dB<br/>Peak SAR (extrapolated) = 0.556 W/kg<br/><b>SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.196 W/kg</b><br/>Maximum value of SAR (measured) = 0.363 W/kg</p> |       |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>dB</p>  </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.363 W/kg = -4.40 dBW/kg</p>   |       |

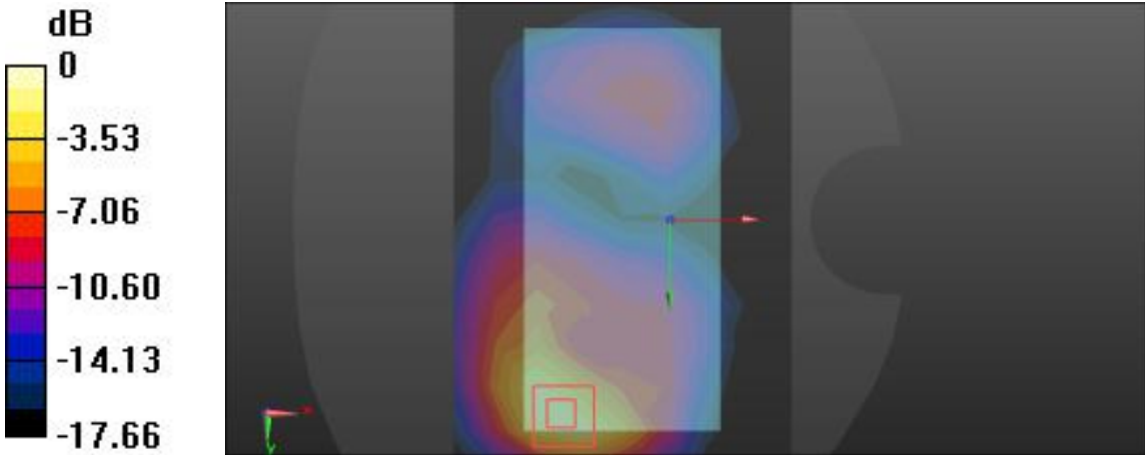
| Right Side  | Tilt |
|---|------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used: <math>f = 1880</math> MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0827 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 6.792 V/m; Power Drift = -0.08 dB<br/>                     Peak SAR (extrapolated) = 0.117 W/kg<br/> <b>SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.050 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0816 W/kg</p> |      |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.58<br/>-5.16<br/>-7.74<br/>-10.32<br/>-12.90</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0816 W/kg = -10.88 dBW/kg</p>  |      |

**LTE (Band 2 20BW-1RB-Low/Flat)**

| FLAT  | Towards phantom |
|---|-----------------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>  |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.461 W/kg</p> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 9.559 V/m; Power Drift = -0.03 dB<br/>Peak SAR (extrapolated) = 0.854 W/kg<br/><b>SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.275 W/kg</b><br/>Maximum value of SAR (measured) = 0.510 W/kg</p> |                 |
|  <p>0 dB = 0.510 W/kg = -2.92 dBW/kg</p>  |                 |

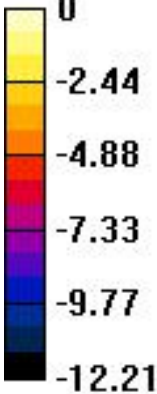
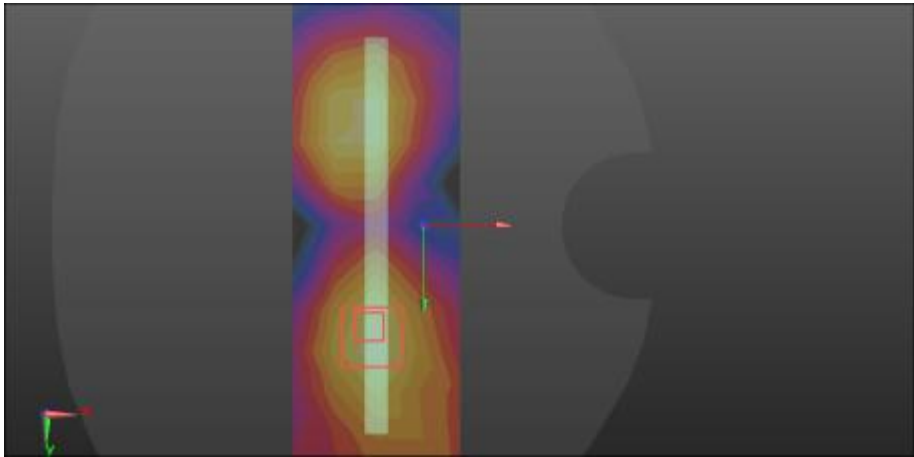
| FLAT  | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, LTE band 02 (0); Frequency: 1860 MHz;Duty Cycle: 1:1<br/>Medium parameters used (interpolated): f = 1860 MHz; <math>\sigma = 1.543</math> S/m; <math>\epsilon_r = 51.207</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>  |                |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>   |                |
| <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB L 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.746 W/kg<br/><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB L 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 11.78 V/m; Power Drift = -0.02 dB<br/>Peak SAR (extrapolated) = 1.22 W/kg<br/><b>SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.412 W/kg</b><br/>Maximum value of SAR (measured) = 0.772 W/kg</p> |                |
|  <p>0 dB = 0.772 W/kg = -1.12 dBW/kg</p>  |                |



| FLAT   | Towards ground |
|--|----------------|
| Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.57 \text{ S/m}$ ; $\epsilon_r = 51.14$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Flat Section  |                |
| DASY5 Configuration:   |                |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.869 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 6.879 V/m; Power Drift = 0.22 dB<br/>                     Peak SAR (extrapolated) = 1.50 W/kg<br/> <b>SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.434 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.881 W/kg</p> |                |
|  <p>0 dB = 0.881 W/kg = -0.55 dBW/kg</p>   |                |

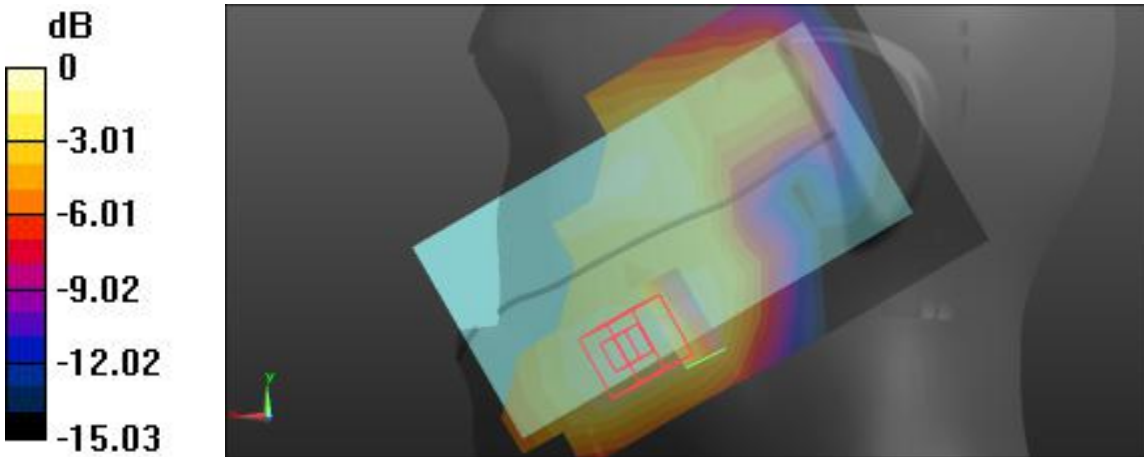
| FLAT  | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, LTE band 02 (0); Frequency: 1900 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1900 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.05</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>   |                |
| <p>DASY5 Configuration:</p>   |                |
| <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> |                |
| <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB H 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.807 W/kg</p>   |                |
| <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 1RB H 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 9.316 V/m; Power Drift = 0.05 dB<br/>Peak SAR (extrapolated) = 1.33 W/kg<br/><b>SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.450 W/kg</b><br/>Maximum value of SAR (measured) = 0.854 W/kg</p>   |                |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.39<br/>-6.79<br/>-10.18<br/>-13.58<br/>-16.97</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.854 W/kg = -0.69 dBW/kg</p>   |                |

| FLAT   | EDGE2 |
|--|-------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>   |       |
| <p>DASY5 Configuration:</p>  |       |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.365 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 12.53 V/m; Power Drift = 0.13 dB<br/>Peak SAR (extrapolated) = 0.665 W/kg<br/><b>SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.213 W/kg</b><br/>Maximum value of SAR (measured) = 0.415 W/kg</p> |       |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.31<br/>-6.62<br/>-9.94<br/>-13.25<br/>-16.56</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.415 W/kg = -3.82 dBW/kg</p>   |       |

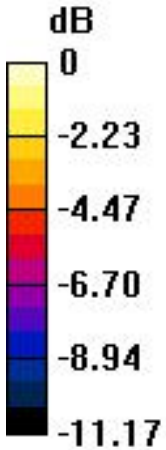
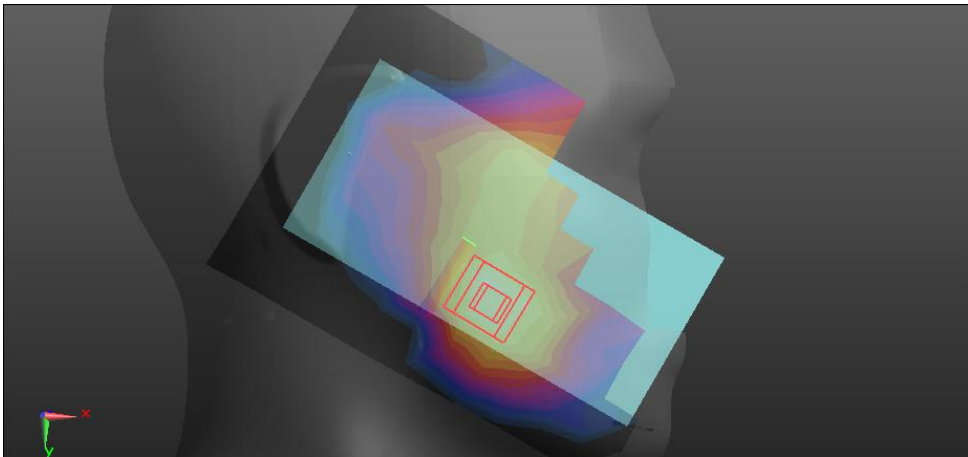
| FLAT  | EDGE3 |
|---|-------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.0436 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 2.837 V/m; Power Drift = 0.05 dB<br/>                     Peak SAR (extrapolated) = 0.0710 W/kg<br/> <b>SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.028 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0457 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0<br/>-2.44<br/>-4.88<br/>-7.33<br/>-9.77<br/>-12.21</p> </div> <div>  </div> </div> <p style="text-align: center;">0 dB = 0.0457 W/kg = -13.40 dBW/kg</p> |       |

| FLAT   | EDGE4 |
|--|-------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.57 \text{ S/m}</math>; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.322 W/kg</p> <p><b>Flat-Section MSL LTE band2 HOT/LTE band2 20MHz 1RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 10.50 V/m; Power Drift = 0.06 dB<br/>                     Peak SAR (extrapolated) = 0.511 W/kg<br/> <b>SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.177 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.327 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.10<br/>-6.20<br/>-9.30<br/>-12.40<br/>-15.50</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.327 W/kg = -4.85 dBW/kg</p> |       |

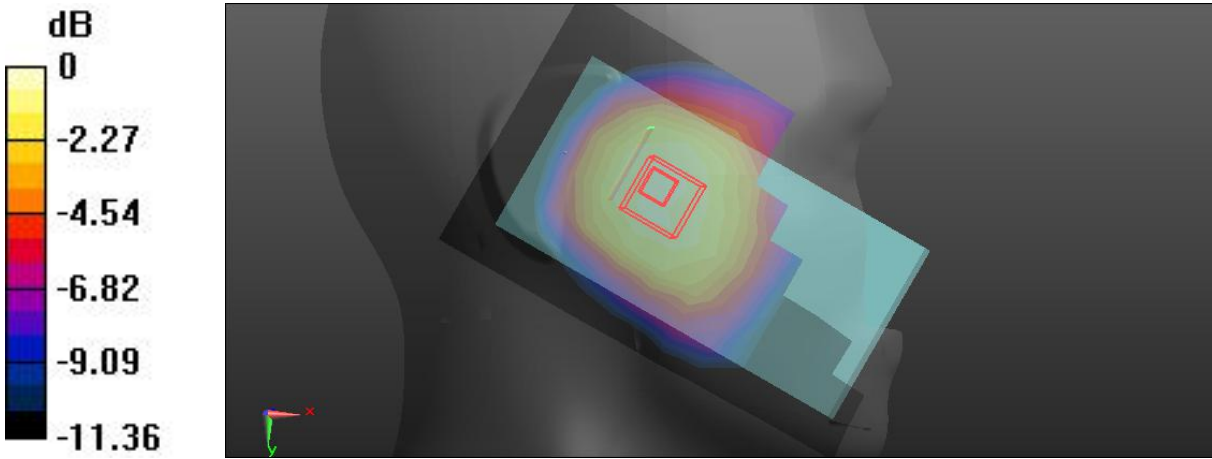
**LTE (Band 2 20BW-50RB-Low/Head)**

| Left Side   | Cheek |
|---|-------|
| Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.45 \text{ S/m}$ ; $\epsilon_r = 39.74$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Left Section   |       |
| DASY5 Configuration:  |       |
| <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.386 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 3.705 V/m; Power Drift = 0.09 dB<br/>                     Peak SAR (extrapolated) = 0.670 W/kg<br/> <b>SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.233 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.435 W/kg</p> |       |
|  <p>0 dB = 0.435 W/kg = -3.62 dBW/kg</p>  |       |

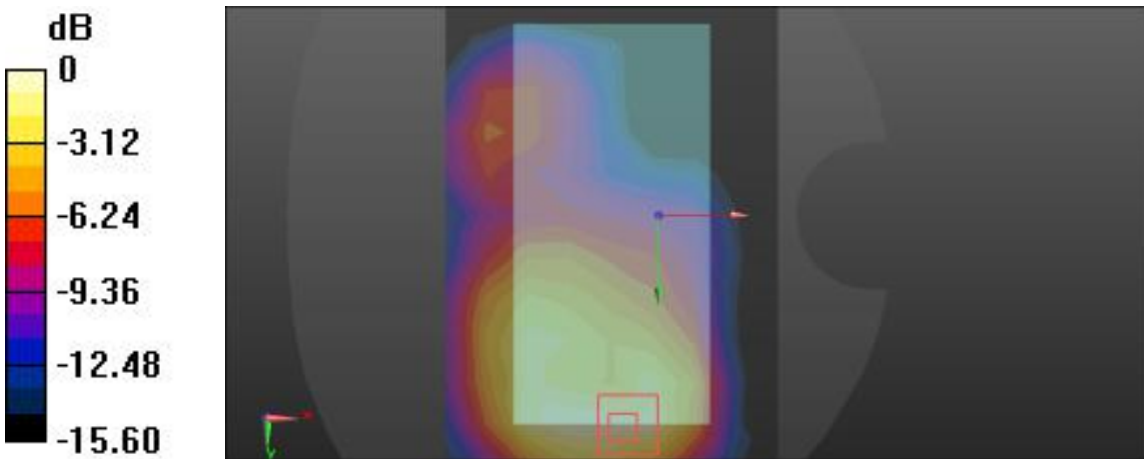
| Left Side   | Tilt |
|---|------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: <math>f = 1880 \text{ MHz}</math>; <math>\sigma = 1.45 \text{ S/m}</math>; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>Phantom section: Left Section</p>   |      |
| <p>DASY5 Configuration:</p>   |      |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>Maximum value of SAR (measured) = 0.0977 W/kg</p> <p><b>Head-Section HSL LTE band2 Left/LTE band2 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>Reference Value = 7.476 V/m; Power Drift = 0.00 dB<br/>Peak SAR (extrapolated) = 0.176 W/kg<br/><b>SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.058 W/kg</b><br/>Maximum value of SAR (measured) = 0.114 W/kg</p> |      |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.58<br/>-5.15<br/>-7.73<br/>-10.30<br/>-12.88</p> </div> <div> <p>0 dB = 0.114 W/kg = -9.43 dBW/kg</p> </div> </div>  |      |

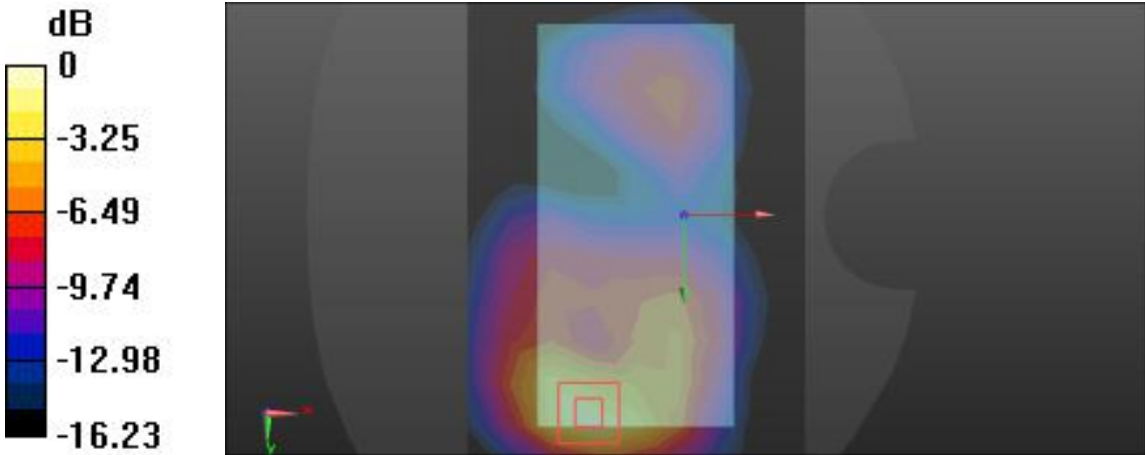
| Right Side   | Cheek |
|--|-------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.45</math> S/m; <math>\epsilon_r = 39.74</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Right Section</p>  |       |
| <p>DASY5 Configuration:</p>  |       |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.147 W/kg</p> <p><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 3.878 V/m; Power Drift = 0.02 dB<br/>Peak SAR (extrapolated) = 0.221 W/kg<br/><b>SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.094 W/kg</b><br/>Maximum value of SAR (measured) = 0.158 W/kg</p> |       |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  </div> <div>  </div> </div> <p>0 dB = 0.158 W/kg = -8.01 dBW/kg</p>   |       |



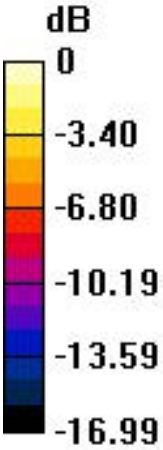
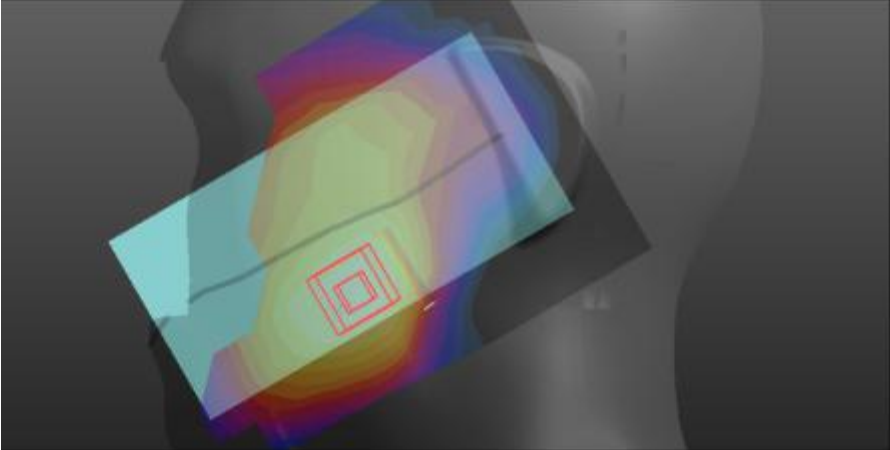
| Right Side   | Tilt |
|--|------|
| Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.45 \text{ S/m}$ ; $\epsilon_r = 39.74$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Right Section<br><br>DASY5 Configuration: <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.0714 W/kg<br><b>Head-Section HSL LTE band2 Right/LTE band2 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 6.151 V/m; Power Drift = -0.15 dB<br>Peak SAR (extrapolated) = 0.109 W/kg<br><b>SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.042 W/kg</b><br>Maximum value of SAR (measured) = 0.0722 W/kg |      |
|  <p style="text-align: center;">0 dB = 0.0722 W/kg = -11.41 dBW/kg</p>   |      |

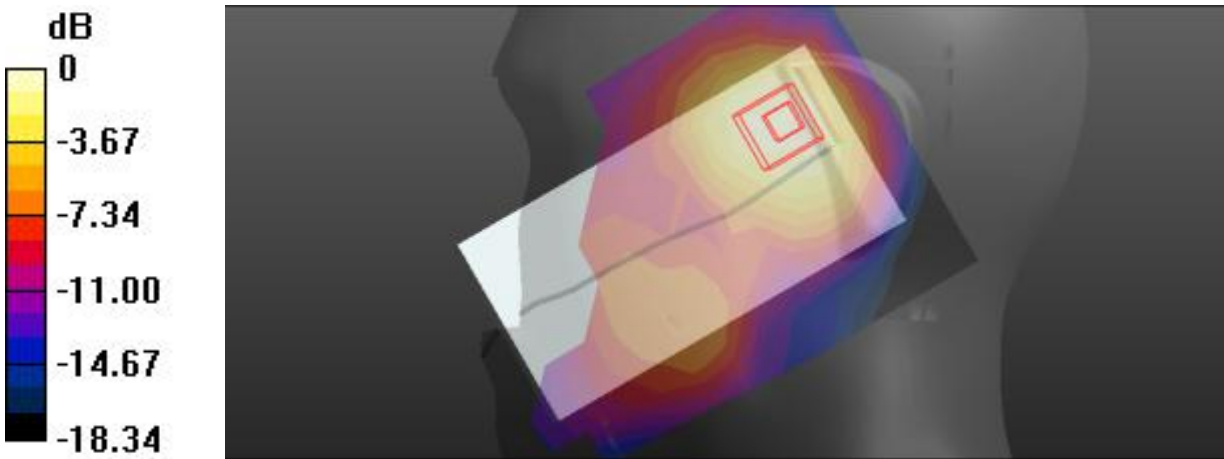
**LTE (Band 2 20BW-50RB-Low/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 1880 MHz; <math>\sigma = 1.57</math> S/m; <math>\epsilon_r = 51.14</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>   |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.371 W/kg</p> <p><b>Flat-Section MSL LTE band2 TP/LTE band2 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 8.207 V/m; Power Drift = 0.07 dB<br/>Peak SAR (extrapolated) = 0.701 W/kg<br/><b>SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.224 W/kg</b><br/>Maximum value of SAR (measured) = 0.413 W/kg</p> |                 |
|  <p>0 dB = 0.413 W/kg = -3.84 dBW/kg</p>   |                 |

| FLAT  | Towards ground |
|---|----------------|
| Communication System: UID 0, LTE band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 1880 \text{ MHz}$ ; $\sigma = 1.57 \text{ S/m}$ ; $\epsilon_r = 51.14$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Flat Section   |                |
| DASY5 Configuration:  |                |
| <ul style="list-style-type: none"> <li>• Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn720; Calibrated: 2016/10/31</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.706 W/kg</p> <p><b>Flat-Section MSL LTE band2 TG/LTE band2 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 6.182 V/m; Power Drift = -0.13 dB<br/>                     Peak SAR (extrapolated) = 1.22 W/kg<br/> <b>SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.352 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.712 W/kg</p> |                |
|  <p>0 dB = 0.712 W/kg = -1.48 dBW/kg</p>  |                |

**LTE (Band 4 20BW-1RB-Low/Head)**

| Left Side  | Cheek |
|--|-------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.320 W/kg</p> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 5.913 V/m; Power Drift = -0.08 dB<br/>                     Peak SAR (extrapolated) = 0.546 W/kg<br/> <b>SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.212 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.375 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  </div> <div>  </div> </div> <p style="text-align: center;">0 dB = 0.375 W/kg = -4.26 dBW/kg</p> |       |

| Left Side  | Tilt |
|--|------|
| Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br>Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section  |      |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.181 W/kg<br><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 10.29 V/m; Power Drift = -0.11 dB<br>Peak SAR (extrapolated) = 0.273 W/kg<br><b>SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.105 W/kg</b><br>Maximum value of SAR (measured) = 0.186 W/kg |      |
|  <p>0 dB = 0.186 W/kg = -7.30 dBW/kg</p>   |      |

| Right Side  | Cheek |
|---|-------|
| Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br>Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Right Section  |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.162 W/kg<br><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 6.115 V/m; Power Drift = 0.05 dB<br>Peak SAR (extrapolated) = 0.266 W/kg<br><b>SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.108 W/kg</b><br>Maximum value of SAR (measured) = 0.187 W/kg |       |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.44<br/>-4.88<br/>-7.33<br/>-9.77<br/>-12.21</p> </div> <div> <p>0 dB = 0.187 W/kg = -7.28 dBW/kg</p> </div> </div>   |       |

| Right Side   | Tilt |
|--|------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.146 W/kg</p> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 9.733 V/m; Power Drift = 0.04 dB<br/>                     Peak SAR (extrapolated) = 0.217 W/kg<br/> <b>SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.085 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.149 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.87<br/>-5.74<br/>-8.61<br/>-11.48<br/>-14.35</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.149 W/kg = -8.27 dBW/kg</p> |      |

**LTE (Band 4 20BW-1RB-Low/Flat)**

| FLAT | Towards phantom |
|------|-----------------|
|------|-----------------|

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.404$  S/m;  $\epsilon_r = 51.622$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2016/8/22
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

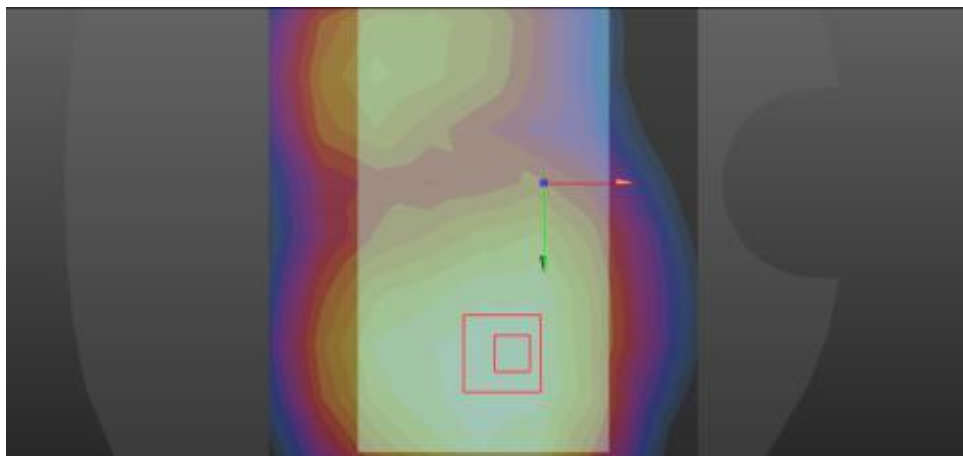
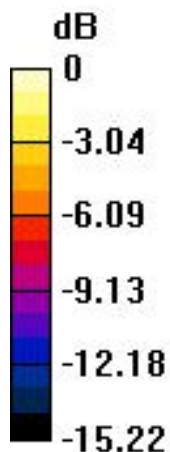
**Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.577 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.537 W/kg

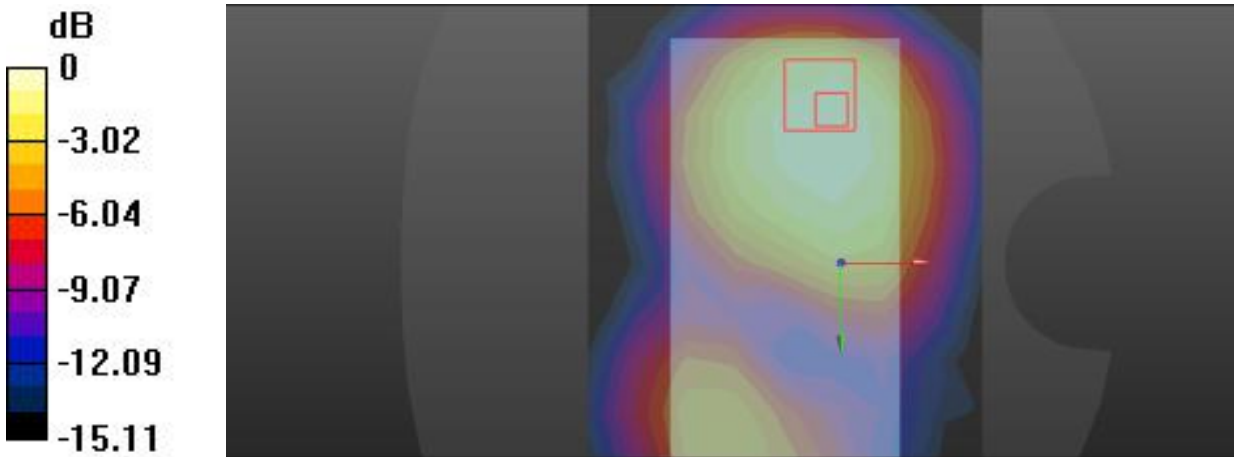
**SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.221 W/kg**

Maximum value of SAR (measured) = 0.367 W/kg

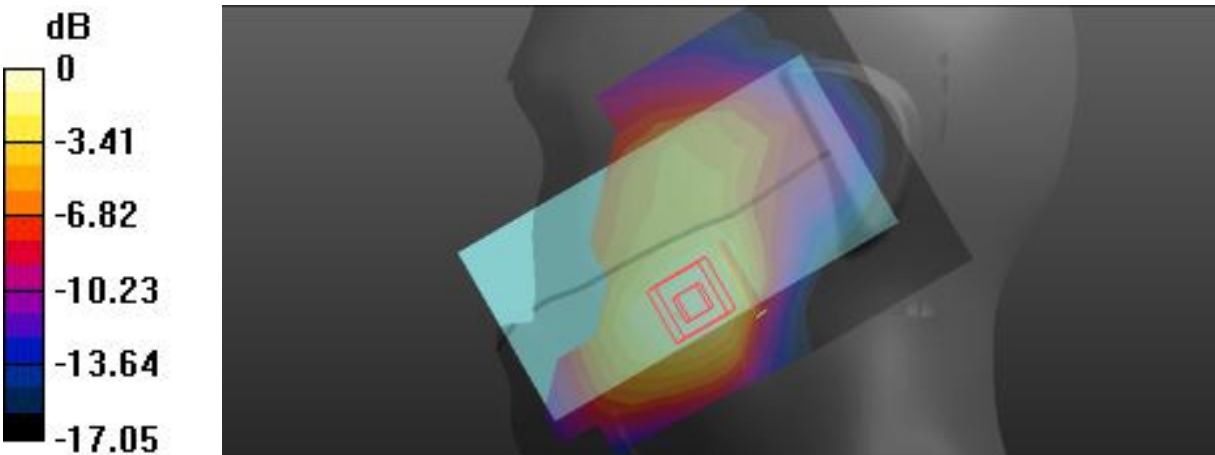


0 dB = 0.367 W/kg = -4.35 dBW/kg



| FLAT   | Towards ground |
|--|----------------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>   |                |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>   |                |
| <p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.211 W/kg<br/><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 7.712 V/m; Power Drift = -0.03 dB<br/>Peak SAR (extrapolated) = 0.317 W/kg<br/><b>SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.124 W/kg</b><br/>Maximum value of SAR (measured) = 0.219 W/kg</p> |                |
|  <p>0 dB = 0.219 W/kg = -6.60 dBW/kg</p>   |                |

**LTE (Band 4 20BW-50RB-Low/Head)**

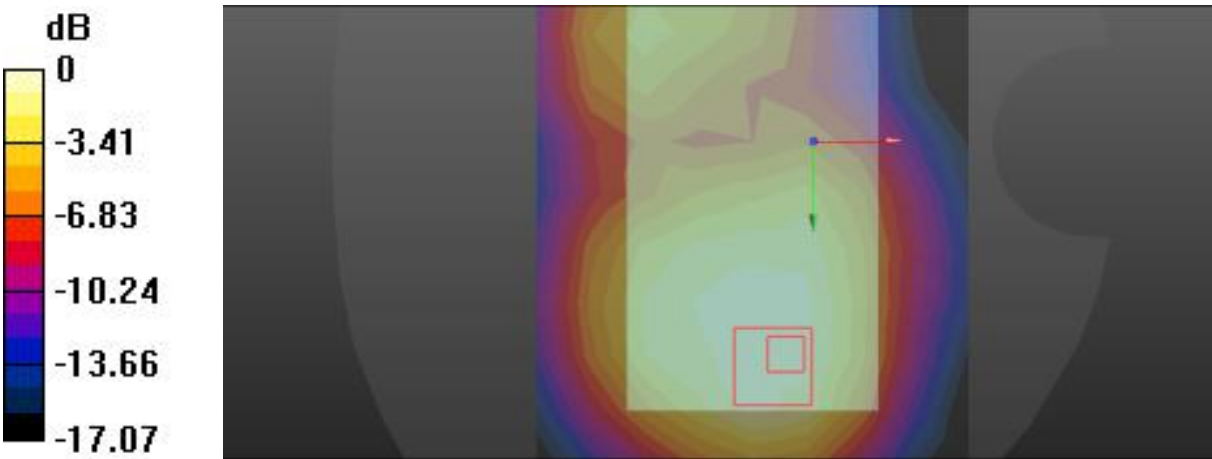
| Left Side   | Cheek |
|---|-------|
| Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br>Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma = 1.304$ S/m; $\epsilon_r = 40.408$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section   |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.267 W/kg<br><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 5.292 V/m; Power Drift = 0.03 dB<br>Peak SAR (extrapolated) = 0.447 W/kg<br><b>SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.172 W/kg</b><br>Maximum value of SAR (measured) = 0.305 W/kg |       |
|  <p>0 dB = 0.305 W/kg = -5.16 dBW/kg</p>  |       |

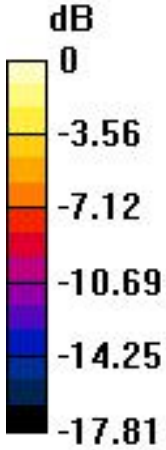
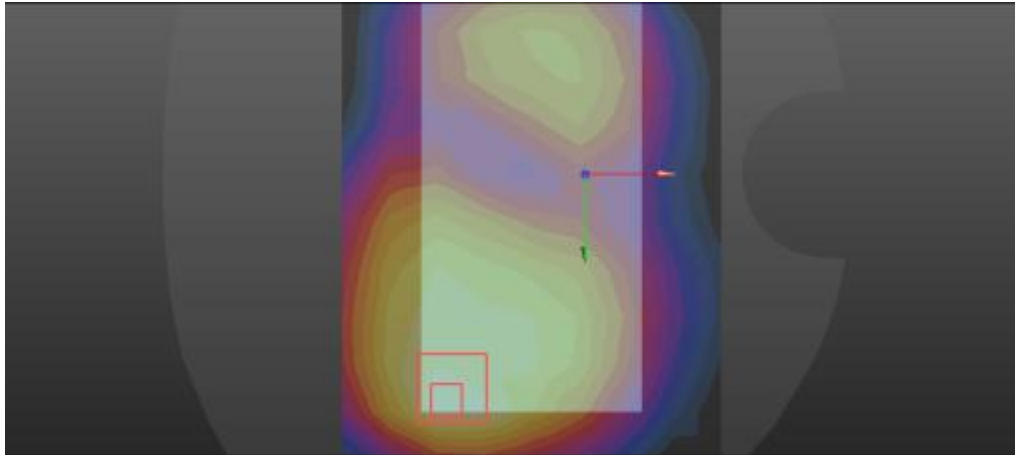
| Left Side  | Tilt |
|--|------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.142 W/kg</p> <p><b>Head-Section HSL LTE band4 Left/LTE band4 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 8.784 V/m; Power Drift = 0.09 dB<br/>                     Peak SAR (extrapolated) = 0.204 W/kg<br/> <b>SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.085 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.147 W/kg</p> <div data-bbox="183 1193 347 1641"> <p><b>dB</b></p> <p>0<br/>-3.62<br/>-7.24<br/>-10.85<br/>-14.47<br/>-18.09</p> </div> <div data-bbox="406 1193 1401 1646"> </div> <p>0 dB = 0.147 W/kg = -8.33 dBW/kg</p> |      |

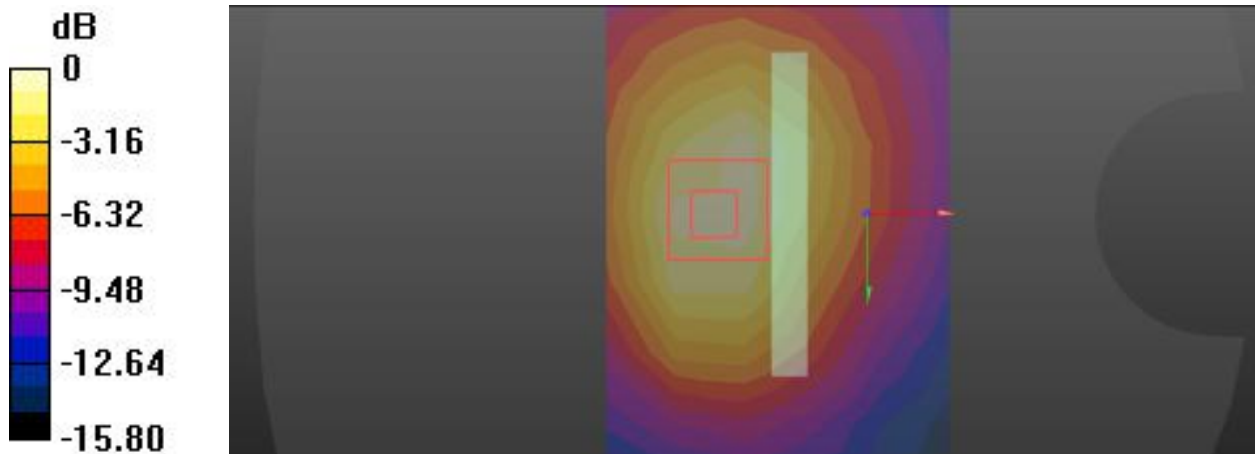
| Right Side  | Cheek |
|---|-------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.143 W/kg</p> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 5.585 V/m; Power Drift = -0.06 dB<br/>Peak SAR (extrapolated) = 0.231 W/kg<br/><b>SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.095 W/kg</b><br/>Maximum value of SAR (measured) = 0.159 W/kg</p> |       |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.26<br/>-4.52<br/>-6.78<br/>-9.04<br/>-11.30</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.159 W/kg = -7.99 dBW/kg</p>   |       |

| Right Side   | Tilt |
|--|------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.304</math> S/m; <math>\epsilon_r = 40.408</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(5.15, 5.15, 5.15); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.124 W/kg</p> <p><b>Head-Section HSL LTE band4 Right/LTE band4 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 8.944 V/m; Power Drift = 0.07 dB<br/>                     Peak SAR (extrapolated) = 0.186 W/kg<br/> <b>SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.072 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.128 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.85<br/>-5.69<br/>-8.54<br/>-11.38<br/>-14.23</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.128 W/kg = -8.93 dBW/kg</p> |      |

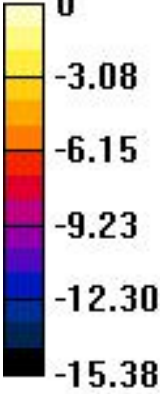
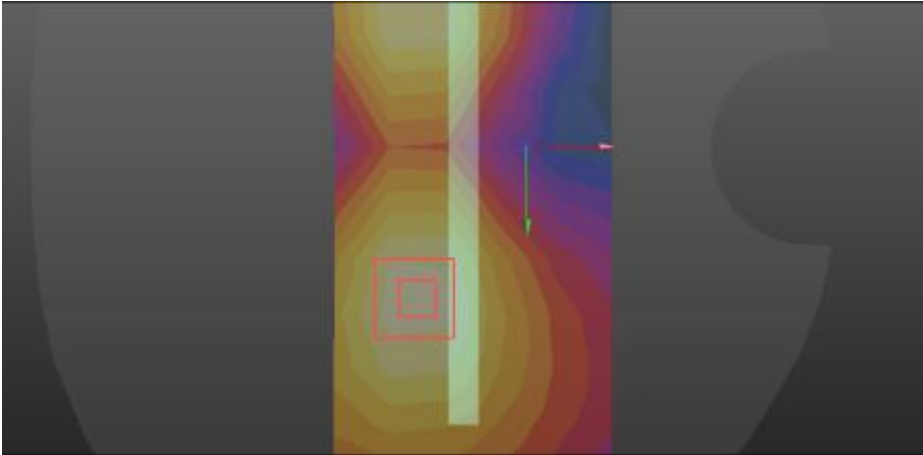
**LTE (Band 4 20BW-50RB-Low/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br>Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 51.622$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section  |                 |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.267 W/kg<br><b>Flat-Section MSL LTE band4 TP/LTE band4 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 6.807 V/m; Power Drift = 0.00 dB<br>Peak SAR (extrapolated) = 0.446 W/kg<br><b>SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.169 W/kg</b><br>Maximum value of SAR (measured) = 0.296 W/kg |                 |
|  <p>0 dB = 0.296 W/kg = -5.29 dBW/kg</p>   |                 |

| FLAT  | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>  |                |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul>  |                |
| <p><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.410 W/kg<br/><b>Flat-Section MSL LTE band4 TG/LTE band4 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 5.211 V/m; Power Drift = 0.03 dB<br/>Peak SAR (extrapolated) = 0.731 W/kg<br/><b>SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.236 W/kg</b><br/>Maximum value of SAR (measured) = 0.467 W/kg</p> |                |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0<br/>-3.56<br/>-7.12<br/>-10.69<br/>-14.25<br/>-17.81</p> </div> <div style="flex-grow: 1;">  <p style="text-align: center;">0 dB = 0.467 W/kg = -3.31 dBW/kg</p> </div> </div>  |                |

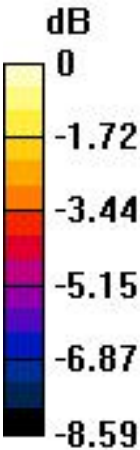
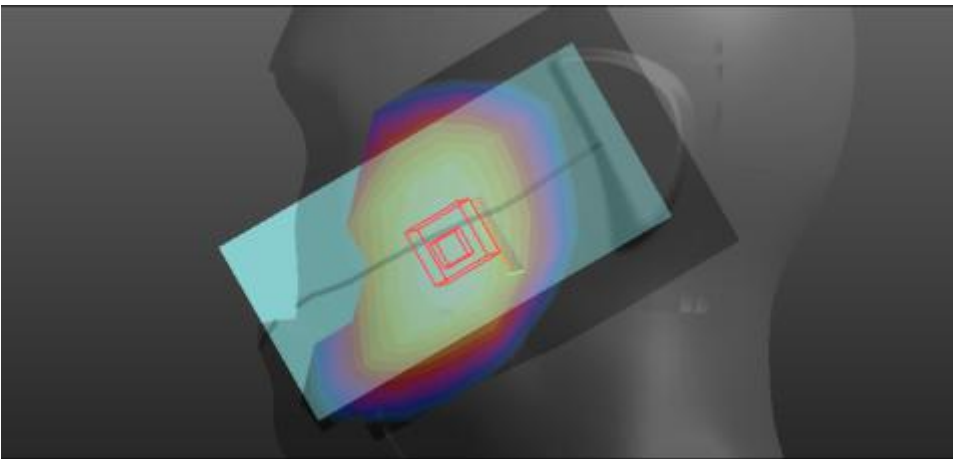
| FLAT  | EDGE2 |
|---|-------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.312 W/kg</p> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 12.16 V/m; Power Drift = 0.10 dB<br/>                     Peak SAR (extrapolated) = 0.522 W/kg<br/> <b>SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.181 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.342 W/kg</p> |       |
|  <p style="text-align: center;">0 dB = 0.342 W/kg = -4.66 dBW/kg</p>  |       |

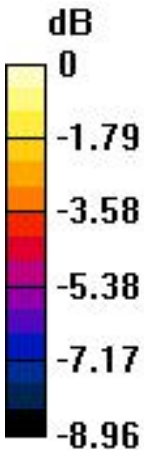
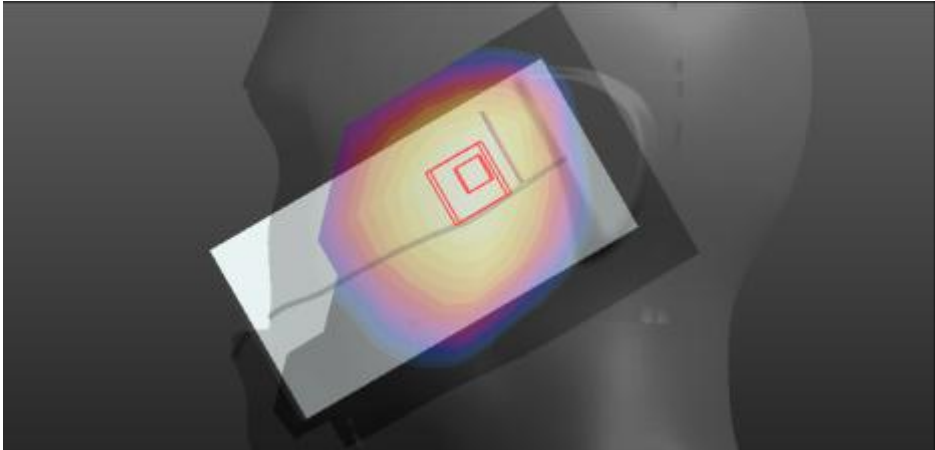


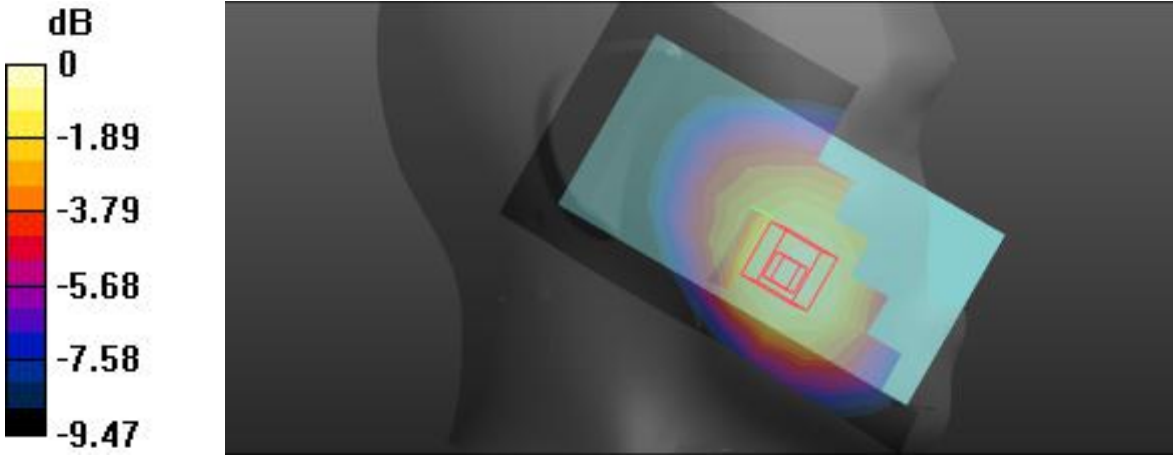
| FLAT  | EDGE3 |
|---|-------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.113 W/kg</p> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 3.986 V/m; Power Drift = 0.00 dB<br/>                     Peak SAR (extrapolated) = 0.186 W/kg<br/> <b>SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.070 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.127 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0<br/>-3.08<br/>-6.15<br/>-9.23<br/>-12.30<br/>-15.38</p> </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.127 W/kg = -8.96 dBW/kg</p> |       |

| FLAT   | EDGE4 |
|--|-------|
| <p>Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 1732.5</math> MHz; <math>\sigma = 1.404</math> S/m; <math>\epsilon_r = 51.622</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.9, 4.9, 4.9); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.147 W/kg</p> <p><b>Flat-Section MSL LTE band4 HOT/LTE band4 20MHz 50RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 7.986 V/m; Power Drift = 0.09 dB<br/>                     Peak SAR (extrapolated) = 0.259 W/kg<br/> <b>SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.088 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.168 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.32<br/>-6.64<br/>-9.95<br/>-13.27<br/>-16.59</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.147 W/kg = -8.33 dBW/kg</p> |       |

**LTE (Band 5 20BW-1RB-Low/Head)**

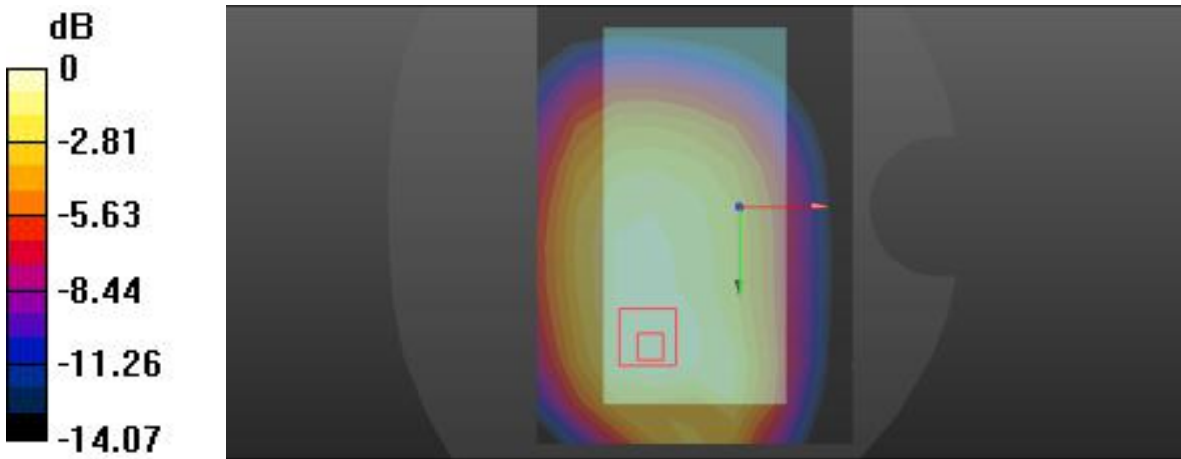
| Left Side   | Cheek |
|---|-------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Left Section</p>  |       |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.108 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 3.005 V/m; Power Drift = 0.17 dB<br/>Peak SAR (extrapolated) = 0.132 W/kg<br/><b>SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.080 W/kg</b><br/>Maximum value of SAR (measured) = 0.107 W/kg</p> |       |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0<br/>-1.72<br/>-3.44<br/>-5.15<br/>-6.87<br/>-8.59</p> </div> <div style="flex-grow: 1;">  <p style="text-align: center;">0 dB = 0.107 W/kg = -9.71 dBW/kg</p> </div> </div>   |       |

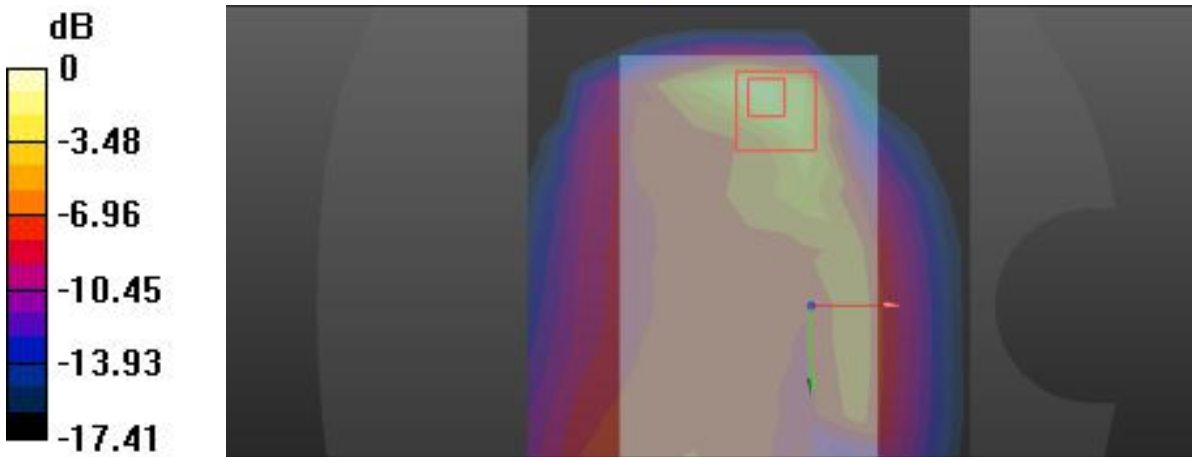
| Left Side  | Tilt |
|--|------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 836.5 \text{ MHz}</math>; <math>\sigma = 0.89 \text{ S/m}</math>; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>                     Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.0714 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 5.588 V/m; Power Drift = -0.04 dB<br/>                     Peak SAR (extrapolated) = 0.0860 W/kg<br/> <b>SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.054 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0726 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  <p>0<br/>-1.79<br/>-3.58<br/>-5.38<br/>-7.17<br/>-8.96</p> </div> <div>  </div> </div> <p style="text-align: center;">0 dB = 0.0726 W/kg = -11.39 dBW/kg</p> |      |

| Right Side   | Cheek |
|--|-------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>           Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>           Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.129 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 3.210 V/m; Power Drift = -0.10 dB<br/>           Peak SAR (extrapolated) = 0.160 W/kg<br/> <b>SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.101 W/kg</b><br/>           Maximum value of SAR (measured) = 0.136 W/kg</p> |       |
|  <p>0 dB = 0.136 W/kg = -8.66 dBW/kg</p>   |       |

| Right Side   | Tilt |
|--|------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0768 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 1RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 5.520 V/m; Power Drift = 0.04 dB<br/>                     Peak SAR (extrapolated) = 0.0890 W/kg<br/> <b>SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.057 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0775 W/kg</p> |      |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-1.73<br/>-3.46<br/>-5.19<br/>-6.92<br/>-8.65</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0775 W/kg = -11.11 dBW/kg</p>   |      |

**LTE (Band 5 20BW-1RB-Low/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br>Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.859$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                 |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 1RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.170 W/kg<br><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 11.70 V/m; Power Drift = -0.02 dB<br>Peak SAR (extrapolated) = 0.222 W/kg<br><b>SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.122 W/kg</b><br>Maximum value of SAR (measured) = 0.178 W/kg |                 |
|  <p style="text-align: center;">0 dB = 0.178 W/kg = -7.50 dBW/kg</p>   |                 |

| FLAT  | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>   |                |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.237 W/kg</p> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 1RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 14.57 V/m; Power Drift = -0.00 dB<br/>Peak SAR (extrapolated) = 0.778 W/kg<br/><b>SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.111 W/kg</b><br/>Maximum value of SAR (measured) = 0.318 W/kg</p> |                |
|  <p>0 dB = 0.318 W/kg = -4.98 dBW/kg</p>  |                |

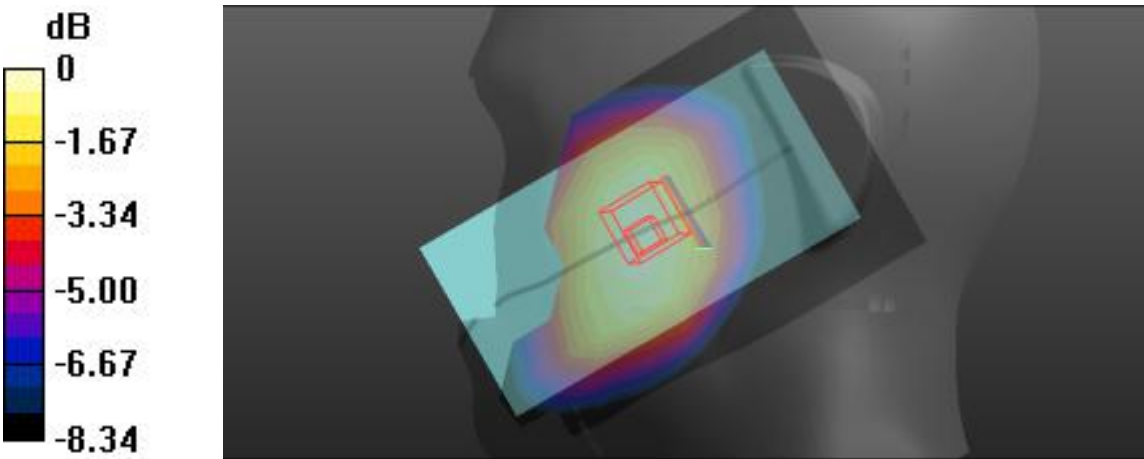


| FLAT  | EDGE2 |
|---|-------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Area Scan (5x9x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.144 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge2/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 7.638 V/m; Power Drift = 0.09 dB<br/>                     Peak SAR (extrapolated) = 0.244 W/kg<br/> <b>SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.064 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.146 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.09<br/>-6.18<br/>-9.27<br/>-12.36<br/>-15.45</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.146 W/kg = -8.36 dBW/kg</p> |       |

| FLAT  | EDGE3 |
|---|-------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Area Scan (5x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.293 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge3/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 17.21 V/m; Power Drift = 0.05 dB<br/>                     Peak SAR (extrapolated) = 0.409 W/kg<br/> <b>SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.201 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.314 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-1.94<br/>-3.87<br/>-5.81<br/>-7.74<br/>-9.68</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.314 W/kg = -5.03 dBW/kg</p> |       |

| FLAT   | EDGE4 |
|--|-------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): f = 836.5 MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Area Scan (5x13x1):</b><br/>                     Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0655 W/kg</p> <p><b>Flat-Section MSL LTE band5 HOT/LTE Band2 edge4/Zoom Scan (7x7x7)/Cube 0:</b><br/>                     Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 5.440 V/m; Power Drift = 0.04 dB<br/>                     Peak SAR (extrapolated) = 0.0860 W/kg<br/> <b>SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.043 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0662 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-1.95<br/>-3.89<br/>-5.84<br/>-7.78<br/>-9.73</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0662 W/kg = -11.79 dBW/kg</p> |       |

**LTE (Band 5 20BW-50RB-Low/Head)**

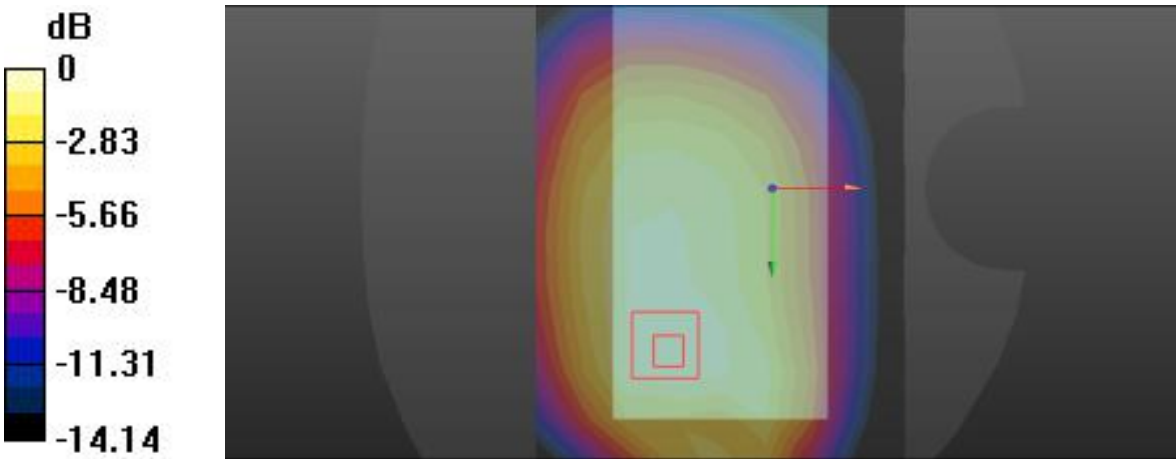
| Left Side  | Cheek |
|--|-------|
| Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br>Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.479$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section   |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.101 W/kg<br><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 2.730 V/m; Power Drift = 0.02 dB<br>Peak SAR (extrapolated) = 0.127 W/kg<br><b>SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.080 W/kg</b><br>Maximum value of SAR (measured) = 0.107 W/kg |       |
|  <p>0 dB = 0.107 W/kg = -9.71 dBW/kg</p>   |       |

| Left Side   | Tilt |
|---|------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Left Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.0603 W/kg</p> <p><b>Head-Section Left HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 5.173 V/m; Power Drift = 0.00 dB<br/>Peak SAR (extrapolated) = 0.0760 W/kg<br/><b>SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.045 W/kg</b><br/>Maximum value of SAR (measured) = 0.0613 W/kg</p> <div data-bbox="204 1193 347 1641"> <p><b>dB</b></p> <p>0<br/>-1.77<br/>-3.54<br/>-5.32<br/>-7.09<br/>-8.86</p> </div> <div data-bbox="427 1193 1382 1648"> </div> <p>0 dB = 0.0613 W/kg = -12.13 dBW/kg</p> |      |

| Right Side   | Cheek |
|--|-------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Right Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0974 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 3.890 V/m; Power Drift = -0.01 dB<br/>                     Peak SAR (extrapolated) = 0.123 W/kg<br/> <b>SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.077 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.103 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-1.92<br/>-3.84<br/>-5.75<br/>-7.67<br/>-9.59</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.103 W/kg = -9.87 dBW/kg</p> |       |

| Right Side   | Tilt |
|--|------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.89</math> S/m; <math>\epsilon_r = 41.479</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Right Section</p>   |      |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.2, 6.2, 6.2); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.0550 W/kg</p> <p><b>Head-Section Right HSL LTE band5/LTE band5 20BW 50RB LOW HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 5.426 V/m; Power Drift = 0.15 dB<br/>Peak SAR (extrapolated) = 0.0670 W/kg<br/><b>SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.042 W/kg</b><br/>Maximum value of SAR (measured) = 0.0567 W/kg</p> |      |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-1.65<br/>-3.30<br/>-4.95<br/>-6.60<br/>-8.25</p> </div> <div> <p>0 dB = 0.0567 W/kg = -12.46 dBW/kg</p> </div> </div>   |      |

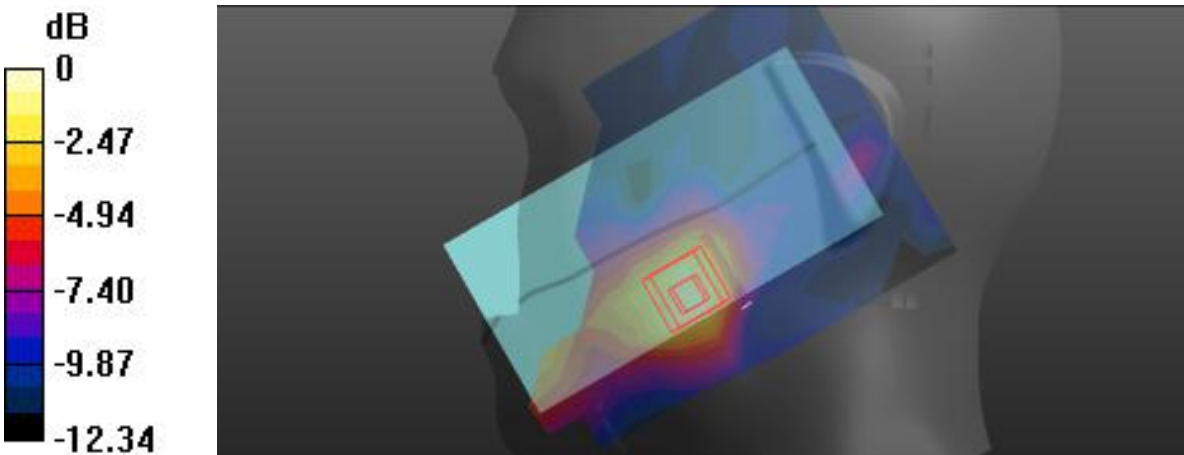
**LTE (Band 5 20BW-50RB-Low/Flat)**

| FLAT  | Towards phantom |
|---|-----------------|
| Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br>Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.859$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section  |                 |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 50RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.146 W/kg<br><b>Flat-Section MSL LTE band5 TP/LTE band5 TP 20BW 50RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 10.69 V/m; Power Drift = 0.05 dB<br>Peak SAR (extrapolated) = 0.193 W/kg<br><b>SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.104 W/kg</b><br>Maximum value of SAR (measured) = 0.153 W/kg |                 |
|  <p>0 dB = 0.153 W/kg = -8.15 dBW/kg</p>  |                 |



| FLAT  | Towards ground |
|---|----------------|
| <p>Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used (interpolated): <math>f = 836.5</math> MHz; <math>\sigma = 0.96</math> S/m; <math>\epsilon_r = 55.859</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(6.16, 6.16, 6.16); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: 1559</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 50RB LOW M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.178 W/kg</p> <p><b>Flat-Section MSL LTE band5 TG/LTE band5 TG 20BW 50RB LOW M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 13.44 V/m; Power Drift = -0.03 dB<br/>                     Peak SAR (extrapolated) = 0.227 W/kg<br/> <b>SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.127 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.184 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.79<br/>-5.58<br/>-8.36<br/>-11.15<br/>-13.94</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.184 W/kg = -7.35 dBW/kg</p> |                |

**LTE (Band 7 20BW-1RB-Low/Head)**

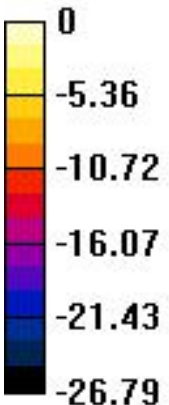
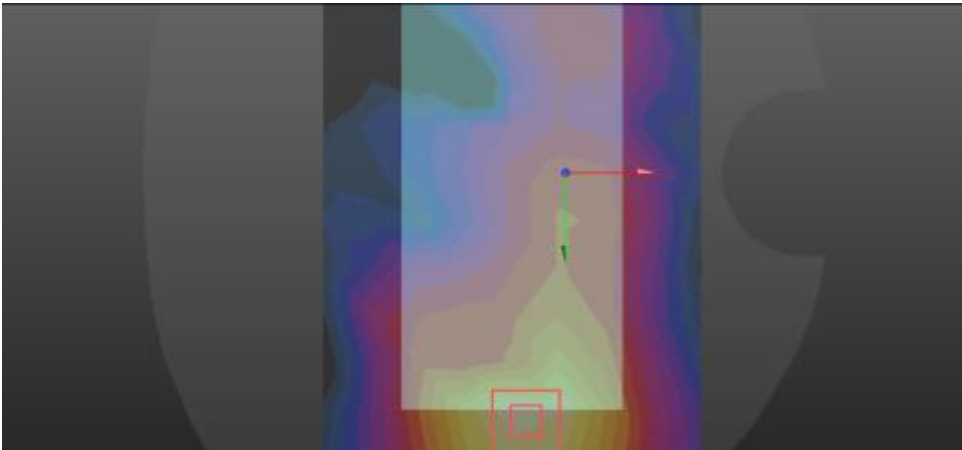
| Left Side  | Cheek |
|--|-------|
| Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);<br>Frequency: 2535 MHz;Duty Cycle: 1:3.74111<br>Medium parameters used: f = 2535 MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 36.5$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section  |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0626 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 0.9200 V/m; Power Drift = 0.08 dB<br/>                     Peak SAR (extrapolated) = 0.125 W/kg<br/> <b>SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.034 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0706 W/kg</p> |       |
|  <p style="text-align: center;">0 dB = 0.0706 W/kg = -11.51 dBW/kg</p>   |       |

| Left Side   | Tilt |
|---|------|
| Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK);<br>Frequency: 2535 MHz;Duty Cycle: 1:3.81066<br>Medium parameters used: f = 2535 MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 36.5$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section   |      |
| DASY5 Configuration:  |      |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0227 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 3.333 V/m; Power Drift = -0.04 dB<br/>                     Peak SAR (extrapolated) = 0.101 W/kg<br/> <b>SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.012 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0448 W/kg</p> |      |
|   |      |
| <p>0 dB = 0.0448 W/kg = -13.49 dBW/kg</p>   |      |

| Right Side  | Cheek |
|---|-------|
| Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 2535 \text{ MHz}$ ; $\sigma = 2.01 \text{ S/m}$ ; $\epsilon_r = 36.5$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Right Section  |       |
| DASY5 Configuration:  |       |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0324 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 1.823 V/m; Power Drift = 0.02 dB<br/>                     Peak SAR (extrapolated) = 0.0730 W/kg<br/> <b>SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.021 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0370 W/kg</p> |       |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-2.05<br/>-4.09<br/>-6.14<br/>-8.18<br/>-10.23</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0370 W/kg = -14.32 dBW/kg</p>   |       |

| Right Side  | Tilt |
|---|------|
| <p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 2535 MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Right Section</p>   |      |
| <p>DASY5 Configuration:</p>   |      |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.0220 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 1RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 2.632 V/m; Power Drift = 0.03 dB<br/>Peak SAR (extrapolated) = 0.112 W/kg<br/><b>SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.013 W/kg</b><br/>Maximum value of SAR (measured) = 0.0699 W/kg</p> |      |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.08<br/>-6.15<br/>-9.23<br/>-12.30<br/>-15.38</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0699 W/kg = -11.56 dBW/kg</p>  |      |

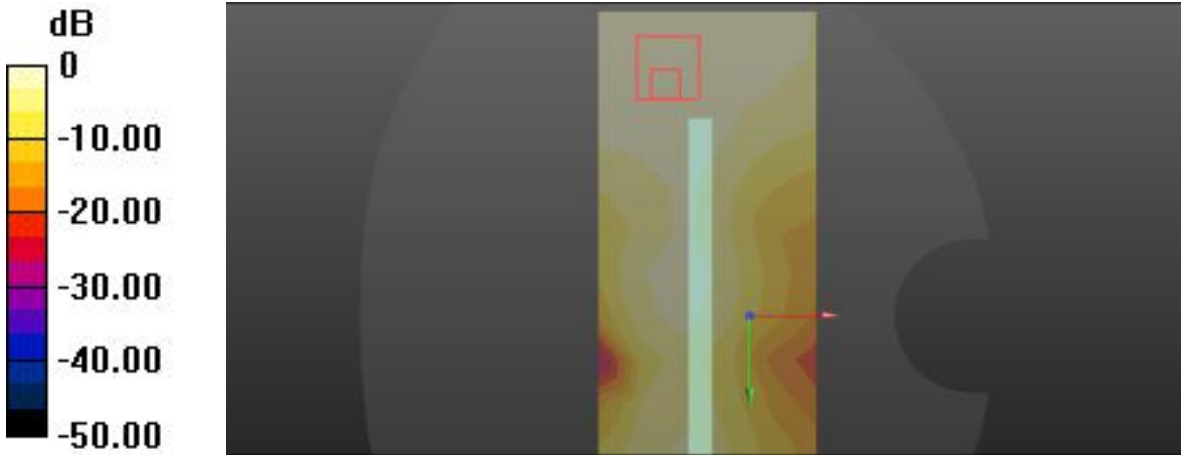
**LTE (Band 7 20BW-1RB-Low/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| <p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);<br/>           Frequency: 2535 MHz;Duty Cycle: 1:3.74111<br/>           Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.15 \text{ S/m}</math>; <math>\epsilon_r = 50.36</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>           Phantom section: Flat Section</p>  |                 |
| <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>           Maximum value of SAR (measured) = 0.318 W/kg<br/> <b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>           Reference Value = 2.694 V/m; Power Drift = -0.01 dB<br/>           Peak SAR (extrapolated) = 0.751 W/kg<br/> <b>SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.146 W/kg</b><br/>           Maximum value of SAR (measured) = 0.358 W/kg</p> |                 |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p>  </div> <div style="flex-grow: 1;">  </div> </div> <p style="text-align: center;">0 dB = 0.358 W/kg = -4.46 dBW/kg</p>   |                 |

| FLAT  | Towards ground |
|---|----------------|
| Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);<br>Frequency: 2535 MHz;Duty Cycle: 1:3.74111<br>Medium parameters used: f = 2535 MHz; $\sigma = 2.15$ S/m; $\epsilon_r = 50.36$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section  |                |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.819 W/kg</p> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 1RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 2.102 V/m; Power Drift = 0.04 dB<br/>                     Peak SAR (extrapolated) = 1.82 W/kg<br/> <b>SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.311 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.840 W/kg</p> |                |
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-5.74<br/>-11.48<br/>-17.23<br/>-22.97<br/>-28.71</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.840 W/kg = -0.76 dBW/kg</p>  |                |

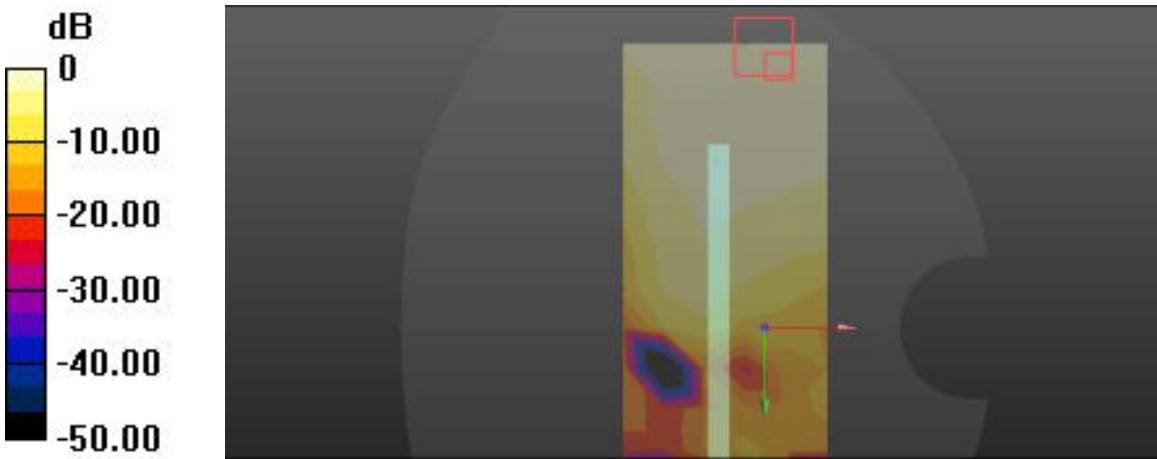
| FLAT   | EDGE2 |
|--|-------|
| <p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mm M edge 2/Area Scan (6x11x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.493 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mm M edge 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 15.74 V/m; Power Drift = 0.01 dB<br/>                     Peak SAR (extrapolated) = 1.16 W/kg<br/> <b>SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.234 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.577 W/kg</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-5.26<br/>-10.52<br/>-15.79<br/>-21.05<br/>-26.31</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.577 W/kg = -2.39 dBW/kg</p> |       |



| FLAT   | EDGE3 |
|--|-------|
| Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 2535 \text{ MHz}$ ; $\sigma = 2.01 \text{ S/m}$ ; $\epsilon_r = 36.5$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Flat Section  |       |
| DASY5 Configuration:   |       |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.0498 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 3.938 V/m; Power Drift = 0.16 dB<br/>                     Peak SAR (extrapolated) = 0.103 W/kg<br/> <b>SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.027 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0525 W/kg</p> |       |
|  <p style="text-align: center;">0 dB = 0.0525 W/kg = -12.80 dBW/kg</p>   |       |

| FLAT  | EDGE3 |
|---|-------|
| <p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br/>Medium parameters used: <math>f = 2535</math> MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>   |       |
| <p>DASY5 Configuration:</p>   |       |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3 2/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.0506 W/kg</p> |       |
| <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 3 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 3.939 V/m; Power Drift = 0.17 dB<br/>Peak SAR (extrapolated) = 0.104 W/kg<br/><b>SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.027 W/kg</b><br/>Maximum value of SAR (measured) = 0.0531 W/kg</p>   |       |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-6.66<br/>-13.32<br/>-19.99<br/>-26.65<br/>-33.31</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.0531 W/kg = -12.75 dBW/kg</p>  |       |

| FLAT  | EDGE4 |
|---|-------|
| <p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br/>                     Medium parameters used: <math>f = 2535 \text{ MHz}</math>; <math>\sigma = 2.01 \text{ S/m}</math>; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000 \text{ kg/m}^3</math><br/>                     Phantom section: Flat Section</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> <li>Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4/Area Scan (6x15x1):</b> Measurement grid: <math>dx=15\text{mm}</math>, <math>dy=15\text{mm}</math><br/>                     Maximum value of SAR (measured) = 0.0193 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: <math>dx=5\text{mm}</math>, <math>dy=5\text{mm}</math>, <math>dz=5\text{mm}</math><br/>                     Reference Value = 1.183 V/m; Power Drift = 0.02 dB<br/>                     Peak SAR (extrapolated) = 0.0400 W/kg<br/> <b>SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.010 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0196 W/kg</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-10.00<br/>-20.00<br/>-30.00<br/>-40.00<br/>-50.00</p> </div> <div> </div> </div> <p style="text-align: center;">0 dB = 0.0196 W/kg = -17.08 dBW/kg</p> |       |

| FLAT   | EDGE4 |
|--|-------|
| <p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br/>Medium parameters used: <math>f = 2535</math> MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Flat Section</p>  |       |
| <p>DASY5 Configuration:</p>  |       |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4 2/Area Scan (6x15x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.0178 W/kg</p> <p><b>Flat-Section MSL LTE band7 HOT/LTE band7 20MHz 1RB 10mmM edge 4 2/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 1.043 V/m; Power Drift = 0.09 dB<br/>Peak SAR (extrapolated) = 0.0360 W/kg<br/><b>SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00988 W/kg</b><br/>Maximum value of SAR (measured) = 0.0190 W/kg</p> |       |
|  <p>0 dB = 0.0190 W/kg = -17.21 dBW/kg</p>   |       |

**LTE (Band 7 20BW-50RB-Low/Head)**

| Left Side  | Cheek |
|--|-------|
| Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);<br>Frequency: 2535 MHz;Duty Cycle: 1:3.74111<br>Medium parameters used: f = 2535 MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 36.5$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section  |       |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL touch M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br>Maximum value of SAR (measured) = 0.0544 W/kg<br><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br>Reference Value = 1.993 V/m; Power Drift = 0.07 dB<br>Peak SAR (extrapolated) = 0.132 W/kg<br><b>SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.030 W/kg</b><br>Maximum value of SAR (measured) = 0.0688 W/kg |       |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-1.99<br/>-3.98<br/>-5.98<br/>-7.97<br/>-9.96</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.0688 W/kg = -11.62 dBW/kg</p>   |       |

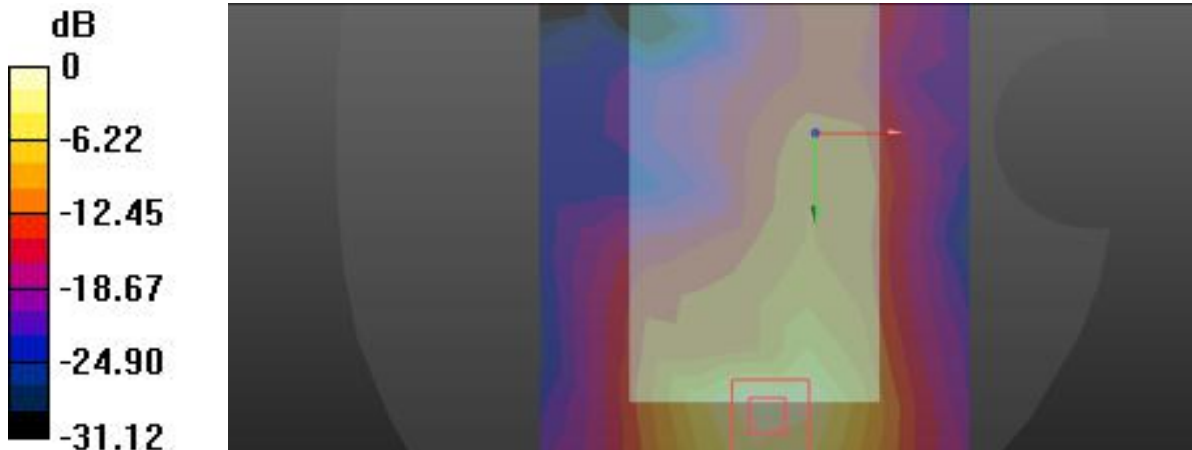
| Left Side   | Tilt |
|---|------|
| Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK);<br>Frequency: 2535 MHz;Duty Cycle: 1:3.81066<br>Medium parameters used: f = 2535 MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 36.5$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Left Section   |      |
| DASY5 Configuration:  |      |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL tilt M/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.0186 W/kg</p> <p><b>Head-Section HSL LTE band7 Left/LTE band7 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 2.718 V/m; Power Drift = 0.06 dB<br/>                     Peak SAR (extrapolated) = 0.0450 W/kg<br/> <b>SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00918 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.0254 W/kg</p> |      |
| <p>dB<br/>                     0<br/>                     -10.00<br/>                     -20.00<br/>                     -30.00<br/>                     -40.00<br/>                     -50.00</p>  |      |
| <p>0 dB = 0.0254 W/kg = -15.95 dBW/kg</p>   |      |

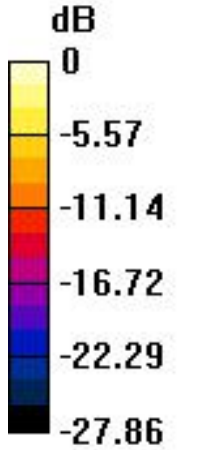
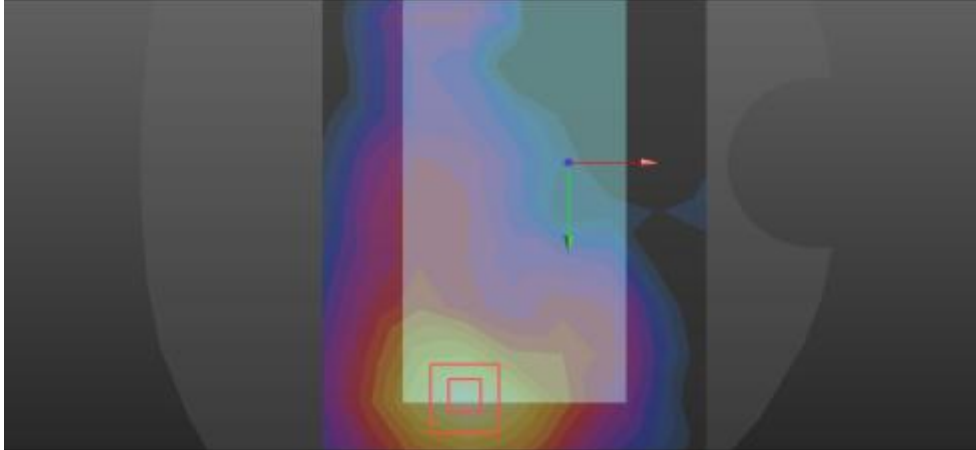
| Right Side   | Cheek |
|--|-------|
| Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br>Medium parameters used: $f = 2535 \text{ MHz}$ ; $\sigma = 2.01 \text{ S/m}$ ; $\epsilon_r = 36.5$ ; $\rho = 1000 \text{ kg/m}^3$<br>Phantom section: Right Section   |       |
| DASY5 Configuration:   |       |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> |       |
| <b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL touch M/Area Scan (8x13x1):</b> Measurement grid: $dx=15\text{mm}$ , $dy=15\text{mm}$<br>Maximum value of SAR (measured) = 0.0280 W/kg  |       |
| <b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL touch M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: $dx=5\text{mm}$ , $dy=5\text{mm}$ , $dz=5\text{mm}$<br>Reference Value = 2.046 V/m; Power Drift = -0.02 dB<br>Peak SAR (extrapolated) = 0.0730 W/kg<br><b>SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.019 W/kg</b><br>Maximum value of SAR (measured) = 0.0333 W/kg                      |       |
|  |       |
| 0 dB = 0.0333 W/kg = -14.78 dBW/kg   |       |

| Right Side  | Tilt |
|---|------|
| <p>Communication System: UID 0, LTE band 07 (0); Frequency: 2535 MHz;Duty Cycle: 1:1<br/>Medium parameters used: f = 2535 MHz; <math>\sigma = 2.01</math> S/m; <math>\epsilon_r = 36.5</math>; <math>\rho = 1000</math> kg/m<sup>3</sup><br/>Phantom section: Right Section</p>   |      |
| <p>DASY5 Configuration:</p>   |      |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.4, 4.4, 4.4); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL tilt M/Area Scan (8x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>Maximum value of SAR (measured) = 0.0188 W/kg</p> <p><b>Head-Section HSL LTE band7 Right/LTE band7 20MHz 50RB Low HSL tilt M/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>Reference Value = 2.520 V/m; Power Drift = 0.04 dB<br/>Peak SAR (extrapolated) = 0.424 W/kg<br/><b>SAR(1 g) = 0.035 W/kg; SAR(10 g) = 0.012 W/kg</b><br/>Maximum value of SAR (measured) = 0.0995 W/kg</p> |      |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>dB</b></p> <p>0<br/>-3.49<br/>-6.98<br/>-10.47<br/>-13.96<br/>-17.45</p> </div> <div style="flex-grow: 1;"> </div> </div> <p style="text-align: center;">0 dB = 0.0995 W/kg = -10.02 dBW/kg</p>   |      |



**LTE (Band 7 20BW-50RB-Low/Flat)**

| FLAT   | Towards phantom |
|--|-----------------|
| Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK);<br>Frequency: 2535 MHz;Duty Cycle: 1:3.81066<br>Medium parameters used: f = 2535 MHz; $\sigma = 2.15$ S/m; $\epsilon_r = 50.36$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |                 |
| DASY5 Configuration: <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>                     Maximum value of SAR (measured) = 0.263 W/kg</p> <p><b>Flat-Section MSL LTE band7 TP/LTE band7 TP 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>                     Reference Value = 2.398 V/m; Power Drift = 0.16 dB<br/>                     Peak SAR (extrapolated) = 0.624 W/kg<br/> <b>SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.123 W/kg</b><br/>                     Maximum value of SAR (measured) = 0.296 W/kg</p> |                 |
|  <p style="text-align: center;">0 dB = 0.296 W/kg = -5.29 dBW/kg</p>   |                 |

| FLAT   | Towards ground   |
|--|--|
| Communication System: UID 10297 - AAA, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK);<br>Frequency: 2535 MHz;Duty Cycle: 1:3.81066<br>Medium parameters used: f = 2535 MHz; $\sigma = 2.15$ S/m; $\epsilon_r = 50.36$ ; $\rho = 1000$ kg/m <sup>3</sup><br>Phantom section: Flat Section   |  |
| DASY5 Configuration:   |  |
| <ul style="list-style-type: none"> <li>• Probe: ES3DV3 - SN3127; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/8/29;</li> <li>• Sensor-Surface: 4mm (Mechanical Surface Detection)</li> <li>• Electronics: DAE4 Sn546; Calibrated: 2016/8/22</li> <li>• Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: 1560</li> <li>• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)</li> </ul> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 50RB M 10mm/Area Scan (9x13x1):</b> Measurement grid: dx=15mm, dy=15mm<br/>           Maximum value of SAR (measured) = 0.667 W/kg</p> <p><b>Flat-Section MSL LTE band7 TG/LTE band7 TG 20MHz 50RB M 10mm/Zoom Scan (7x7x7)/Cube 0:</b> Measurement grid: dx=5mm, dy=5mm, dz=5mm<br/>           Reference Value = 1.967 V/m; Power Drift = 0.08 dB<br/>           Peak SAR (extrapolated) = 1.51 W/kg<br/> <b>SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.258 W/kg</b><br/>           Maximum value of SAR (measured) = 0.688 W/kg</p> |  |
|  <p>dB<br/>0<br/>-5.57<br/>-11.14<br/>-16.72<br/>-22.29<br/>-27.86</p>  |  |
| <p>0 dB = 0.688 W/kg = -1.62 dBW/kg</p>  |  |

**ANNEX B – RELEVANT PAGES FROM CALIBRATION REPORTS**

DAE4 Sn:546

Calibration Laboratory of Schindl & Partner Engineering AG  
Ingenieurkammer Tirol, 6020 Tyrol, Innsbruck

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA Mutual Recognition Agreement for the recognition of calibration certificates

Client: **SRTC (YH4)** Certificate No.: **DAE4-546\_Aug18**

Accreditation No.: **SCS 0108**

**CALIBRATION CERTIFICATE**

Object: **DAE4 - SD 000 D04 004 - SN: 546**

Calibration procedure(s): **DA-CAL-06.v09**  
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: **August 22, 2018**

This calibration certificate documents the results of general standards, which refer to the physical units of measurement (SI). The measurement and the performance (MPE) confidence probability are given on the following pages as well as in the appendix.

All calibrations have been conducted in the calibration facility, environment temperature (20 ± 0.2 °C) and humidity < 10%.

Calibration Equipment used (EMIT) unless otherwise specified:

| Calibration Equipment        | EMPE                                    | Due Date (Certificate No.) | Manufacturer/Calibration |
|------------------------------|---|----------------------------|--------------------------|
| Source: Multimeter Type 2011 | 0.05 (2011/05)                          | 08-Nov-18 (2011/1755)      | Agilent                  |
| Reference: Multimeter        | 0.05                                    | 08-Sep-18 (2011/1755)      | Agilent                  |
| Auto DAE Calibration Unit    | 0.1 (DAE 000 004 000 - 000 004 000 000) | 08-Sep-18 (2011/1755)      | Agilent                  |
| Calibration Unit (U)         | 0.1 (DAE 000 004 000 - 000 004 000 000) | 08-Sep-18 (2011/1755)      | Agilent                  |

Prepared by: **Dr. Michael Schindl** Quality Technical Manager

This calibration certificate shall not be reproduced except in full without written approval of the Institute.

Certificate No.: DAE4-546\_Aug18 Page 1 of 5

Calibration Laboratory of Schindl & Partner Engineering AG  
Ingenieurkammer Tirol, 6020 Tyrol, Innsbruck

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA Mutual Recognition Agreement for the recognition of calibration certificates

Client: **SRTC (YH4)** Certificate No.: **DAE4-546\_Aug18**

Accreditation No.: **SCS 0108**

**Glossary**

DAE: data acquisition electronics  
Connector angle: information used in DAE4 system to align probe sensor X to the input coordinate system.

**Methods Applied and Interpretation of Parameters**

- DC Voltage Measurement: Calibration Factor assessed for use in DAE4 system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
- DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
- Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
- Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
- AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage.
- Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
- Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
- Input Resistance: Typical value for information; DAE input resistance at the connector, during internal auto-ranging and during measurement.
- Low Battery Alarm Voltage: Typical value for information; Below this voltage, a battery alarm signal is generated.
- Power Consumption: Typical value for information; Supply currents in various operating modes.

Certificate No.: DAE4-546\_Aug18 Page 2 of 5

**Appendix (Additional assessments outside the scope of SCS 0108)**

**1. DC Voltage Linearity**

| High Range         | Reading (µV) | Difference (µV) | Error (%) |
|--------------------|--------------|-----------------|-----------|
| Channel X -> Input | 20001.74     | -0.76           | -0.38     |
| Channel X -> Input | 20003.86     | -0.76           | -0.38     |
| Channel X -> Input | -00207.88    | 3.77            | -1.82     |
| Channel Y -> Input | 20001.10     | -10.28          | -0.51     |
| Channel Y -> Input | 20003.20     | -2.18           | -0.11     |
| Channel Y -> Input | -00203.78    | 1.88            | -0.09     |
| Channel Z -> Input | 20003.04     | -7.88           | -0.39     |
| Channel Z -> Input | 18889.07     | -4.08           | -0.21     |
| Channel Z -> Input | -00203.38    | 0.87            | -0.04     |

| Low Range          | Reading (µV) | Difference (µV) | Error (%) |
|--------------------|--------------|-----------------|-----------|
| Channel X -> Input | 20000.82     | -8.18           | -0.41     |
| Channel X -> Input | 20110.8      | 8.23            | 0.41      |
| Channel X -> Input | 1987.8       | 8.38            | -0.42     |
| Channel Y -> Input | 20003.36     | -0.29           | -0.01     |
| Channel Y -> Input | 20003.26     | -0.87           | -0.04     |
| Channel Y -> Input | -2001.84     | -0.83           | -0.04     |
| Channel Z -> Input | 20003.61     | 8.13            | 0.40      |
| Channel Z -> Input | 1991.04      | 1.80            | -0.09     |
| Channel Z -> Input | -001.82      | -1.88           | -0.93     |

**2. Common mode sensitivity**

| Common mode Input Voltage (µV) | High Range Average Reading (µV) | Low Range Average Reading (µV) |
|--------------------------------|---------------------------------|--------------------------------|
| Channel X                      | 1.40                            | 0.10                           |
| Channel X                      | -2.80                           | -0.23                          |
| Channel Y                      | 4.48                            | -0.13                          |
| Channel Y                      | -2.80                           | -1.08                          |
| Channel Z                      | 0.18                            | 0.17                           |
| Channel Z                      | -2.80                           | -0.80                          |

**3. Channel separation**

| Input Voltage (µV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|--------------------|----------------|----------------|----------------|
| 200                | -              | -0.91          | -0.43          |
| 200                | 8.77           | -              | -1.20          |
| 200                | 5.58           | 1.83           | -              |

Certificate No.: DAE4-546\_Aug18

Page 4 of 5

**4. AD-Converter Values with inputs shorted**

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 15845            | 16442           |
| Channel Y | 16150            | 14493           |
| Channel Z | 15907            | 16531           |

**5. Input Offset Measurement**

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec  
Input: 10MΩ

|           | Average (µV) | min. Offset (µV) | max. Offset (µV) | Std. Deviation (µV) |
|-----------|--------------|------------------|------------------|---------------------|
| Channel X | 1.22         | 0.21             | 1.94             | 0.35                |
| Channel Y | 0.27         | -1.07            | 1.43             | 0.50                |
| Channel Z | -0.65        | -1.46            | 0.11             | 0.35                |

**6. Input Offset Current**

Nominal input circuitry offset current on all channels: <25fA

**7. Input Resistance (Typical values for information)**

|           | Zeroing (kΩhm) | Measuring (MΩhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

**8. Low Battery Alarm Voltage (Typical values for information)**

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9              |
| Supply (- Vcc) | -7.6              |

**9. Power Consumption (Typical values for information)**

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01             | +6            | +14               |
| Supply (- Vcc) | -0.01             | -8            | -9                |

Certificate No.: DAE4-546\_Aug18

Page 5 of 5

DAE4 Sn:546

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 15845            | 16442           |
| Channel Y | 16150            | 14493           |
| Channel Z | 15907            | 16531           |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec  
Input: 10M $\Omega$

|           | Average ( $\mu$ V) | min. Offset ( $\mu$ V) | max. Offset ( $\mu$ V) | Std. Deviation ( $\mu$ V) |
|-----------|--------------------|------------------------|------------------------|---------------------------|
| Channel X | 1.22               | 0.21                   | 1.94                   | 0.25                      |
| Channel Y | 0.27               | -1.07                  | 1.43                   | 0.50                      |
| Channel Z | -0.65              | -1.46                  | 0.11                   | 0.35                      |

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25A

7. Input Resistance (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9              |
| Supply (- Vcc) | -7.6              |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01             | +6            | +14               |
| Supply (- Vcc) | -0.01             | -8            | -9                |

DAE4 Sn:720

Calibration Laboratory of  
Sofrad & Partner  
Engineering AG  
Bergheimstrasse 10, 8000 Zurich, Switzerland

Accreditation No.: SCS 0108

Client: SRTC (NYW) Certificate No.: DAE4-720\_0016

**CALIBRATION CERTIFICATE**

Item: EMEX - CD-200 DSA BW - 3M-720

Customer procedure: QA-CAL-001-010  
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: October 21, 2016

This calibration certificate documents the traceability to national standards, when made the physical units of measurements (SI).  
The measurements and the uncertainties and confidence intervals are given in the attached pages and are valid for 12 months.  
All calibrations have been conducted in the stated laboratory facility, environmental conditions (20  $\pm$  0.5°C and humidity < 65%).  
Calibration Equipment used (EMEX) verified for calibration.

| Primary Standard            | SI Unit                | SI Unit (Certificate No.) | Expected Uncertainty |
|-----------------------------|------------------------|---------------------------|----------------------|
| Measuring Machine Type 2011 | SI: distance           | SI: length (SI: length)   | 10 $\mu$ m           |
| Reference Standard          | SI: length             | SI: length (SI: length)   | 10 $\mu$ m           |
| Peak DAC Calibration (SI)   | SI: (DAC) 200 MHz (SI) | SI: (DAC) 200 MHz (SI)    | 10 MHz (SI: 10 MHz)  |
| Calibration for (SI)        | SI: (DAC) 200 MHz (SI) | SI: (DAC) 200 MHz (SI)    | 10 MHz (SI: 10 MHz)  |

Calibrated by: Name: Christoph Keller, Position: Technician, Signature: [Signature]

Reviewed by: Name: [Name], Position: Quality Technical Manager, Signature: [Signature]

Valid until: October 21, 2017

Certificate No: DAE4-720\_0016 Page 1 of 3

DAE4 Sn:720

Calibration Laboratory of  
Schnitz & Partner  
Engineering AG  
Rugelshausen 10, 8033 Zurich, Switzerland



Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is a unit of the administration of the Swiss Confederation. Agreement for the recognition of calibration activities.

Accreditation no.: SCS 0108

**Glossary**  
DAE Data acquisition electronics  
Connector angle Information used in DAEY system to align probe sensor X to the robot coordinate system.

- Methods Applied and Interpretation of Parameters**
- **DC Voltage Measurement:** Calibration Factor assessed for use in DAEY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
  - **Connector angle:** This angle of the connector is assessed measuring the angle mechanically by a lead inserted. Uncertainty is not required.
  - The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
    - **DC Voltage Measurement (Linearity):** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
    - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
    - **Channel separation:** Influence of a voltage on the neighbor channels not subject to an input voltage.
    - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage.
    - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
    - **Input Offset Current:** Typical value for information. Maximum channel input offset current, not considering the input resistance.
    - **Input resistance:** Typical value for information. DAE input resistance at the connector, during internal auto-zeroing and during measurement.
    - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
    - **Power consumption:** Typical value for information. Supply currents in various operating modes.

**DC Voltage Measurement**  
AD-Converter Resolution nominal  
High Range 11.85 mV 8 bit full range = -100...+100 mV  
Low Range 11.85 mV 8 bit full range = -10...+10 mV  
DAEY measurement parameters Auto Zero Time: 3 sec. Measuring time: 3 sec.

| Calibration Factors | X                     | Y                     | Z                     |
|---------------------|-----------------------|-----------------------|-----------------------|
| High Range          | 400.289 ± 0.02% (3=2) | 404.780 ± 0.02% (3=2) | 411.298 ± 0.02% (3=2) |
| Low Range           | 2.80282 ± 1.02% (3=2) | 2.82407 ± 1.02% (3=2) | 2.86651 ± 1.02% (3=2) |

**Connector Angle**

|  |            |
|--|------------|
| Connector angle for use in DAEY system | 23.6° ± 1° |
|--|------------|

Appendix (Additional assessments outside the scope of SCG1018)

**1. DC Voltage Linearity**

| High Range        | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 20000.00     | 0.00            | 0.00      |
| Channel X - Input | 20000.98     | 1.01            | 0.01      |
| Channel X + Input | -20000.03    | 2.38            | -0.04     |
| Channel Y + Input | 20001.40     | -1.44           | -0.05     |
| Channel Y - Input | 20003.28     | -2.88           | -0.09     |
| Channel Y + Input | 20003.07     | 1.22            | -0.01     |
| Channel Z + Input | 20000.89     | -1.03           | -0.02     |
| Channel Z - Input | 20001.98     | -2.07           | -0.21     |
| Channel Z + Input | -20000.83    | -4.38           | -0.80     |

| Low Range         | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 1800.88      | -0.88           | -0.05     |
| Channel X - Input | 280.42       | -5.42           | -0.21     |
| Channel X + Input | -198.48      | -0.24           | 0.12      |
| Channel Y + Input | 2080.76      | -0.61           | -0.03     |
| Channel Y - Input | 208.08       | -0.99           | -0.03     |
| Channel Y + Input | -198.50      | -0.25           | 0.13      |
| Channel Z + Input | 2080.46      | -0.29           | -0.01     |
| Channel Z - Input | 108.41       | -1.33           | -0.89     |
| Channel Z + Input | -200.21      | -0.30           | -0.40     |

**2. Common mode sensitivity**  
DAEY measurement parameters Auto Zero Time: 3 sec. Measuring time: 3 sec.

| Channel   | Common mode Input Voltage (mV) | High Range Average Reading (µV) | Low Range Average Reading (µV) |
|-----------|--------------------------------|---------------------------------|--------------------------------|
| Channel X | 000                            | -2.50                           | -0.72                          |
|           | 000                            | 7.70                            | 0.87                           |
| Channel Y | 000                            | -15.89                          | -17.09                         |
|           | 000                            | -6.62                           | -17.09                         |
| Channel Z | 000                            | -6.19                           | -18.08                         |
|           | -200                           | 14.30                           | 18.81                          |

**3. Channel separation**  
DAEY measurement parameters Auto Zero Time: 3 sec. Measuring time: 3 sec.

| Channel   | Input Voltage (mV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200                | -              | -0.25          | -0.89          |
| Channel Y | 200                | 0.74           | -              | 0.77           |
| Channel Z | 200                | 0.38           | 0.27           | -              |

**4. AD-Converter Values with inputs shorted**  
DAEY measurement parameters Auto Zero Time: 3 sec. Measuring time: 3 sec.

|           | High Range (µV) | Low Range (µV) |
|-----------|-----------------|----------------|
| Channel X | 1818            | 1821           |
| Channel Y | 1918            | 1808           |
| Channel Z | 1928            | 1874           |

**5. Input Offset Measurement**  
DAEY measurement parameters Auto Zero Time: 3 sec. Measuring time: 3 sec. Input 10kΩ

|           | Average (µV) | min. Offset (µV) | max. Offset (µV) | Ris. Deviation (µV) |
|-----------|--------------|------------------|------------------|---------------------|
| Channel X | 0.75         | -1.14            | 0.77             | 0.62                |
| Channel Y | -0.03        | -1.04            | -0.80            | 0.41                |
| Channel Z | -2.18        | -2.57            | -1.76            | 0.68                |

**6. Input Offset Current**  
Nominal input offset current on all channels. -0.5nA

**7. Input Resistance** (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

**8. Low Battery Alarm Voltage** (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +1.8              |
| Supply (- Vcc) | -7.0              |

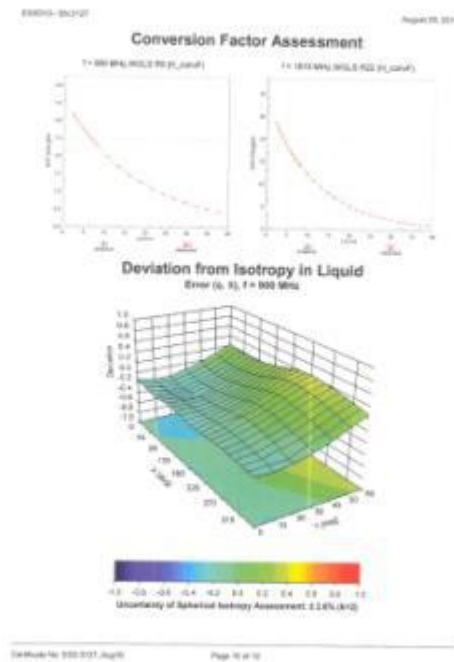
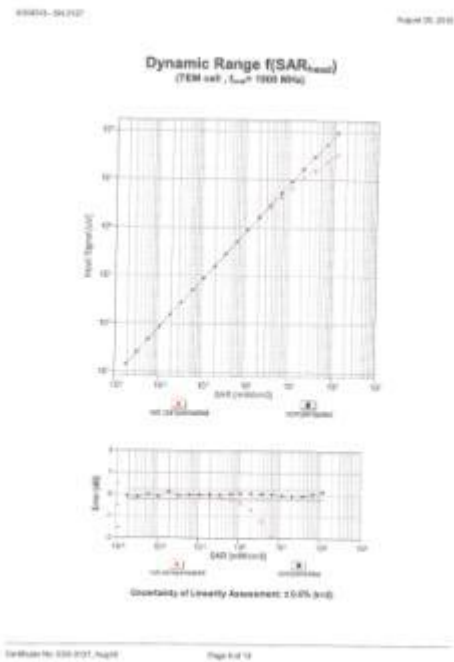
**9. Power Consumption** (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | 18.00             | <0            | >14               |
| Supply (- Vcc) | -0.01             | -0            | -0                |





ES3DV3 Sn:3127



ES3DV3 - SN:3127 August 28, 2018

**DASY/EASY - Parameters of Probe: ES3DV3 - SN:3127**

**Other Probe Parameters**

|   |            |
|---|------------|
| Sensor Arrangement                            | Flange/air |
| Cone/beam Angle (°)                           | ±15.8      |
| Mechanism: Surface Detection Mode             | 9°/90°/0°  |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 30 mm      |
| Tip Length                                    | 18 mm      |
| Tip Diameter                                  | 4 mm       |
| Probe Tip to Sensor X Collimator Plane        | 2 mm       |
| Probe Tip to Sensor Y Collimator Plane        | 2 mm       |
| Probe Tip to Sensor Z Collimator Plane        | 2 mm       |
| Recommended Measurement Distance from Surface | 3 mm       |

Certificate No: ES3DV3\_KqjF8 Page 11 of 12

ES3DV3 - SN:3127 August 28, 2018

**Appendix: Modulation Calibration Parameters**

| DB   | Communication System Name       | A | B    | C    | D    | MV   | 100% Error |
|------|---------------------------------|---|------|------|------|------|------------|
| 0    | FM                              | X | 0.0  | 0.0  | 1.0  | 0.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Y | 0.0  | 0.0  | 1.0  | 0.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Z | 0.0  | 0.0  | 1.0  | 0.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | X | 0.08 | 0.14 | 0.03 | 1.81 | 15.8%      |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Y | 0.76 | 0.13 | 0.13 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Z | 0.10 | 0.13 | 0.13 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | X | 0.43 | 0.07 | 0.07 | 0.38 | 31.8%      |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Y | 0.43 | 0.07 | 0.07 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Z | 0.43 | 0.07 | 0.07 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | X | 0.11 | 0.18 | 0.18 | 0.10 | 15.4%      |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Y | 0.14 | 0.10 | 0.10 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Z | 0.03 | 0.10 | 0.10 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | X | 0.78 | 0.13 | 0.13 | 0.76 | 61.2%      |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Y | 0.78 | 0.13 | 0.13 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Z | 0.06 | 0.13 | 0.13 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | X | 0.00 | 0.08 | 0.08 | 0.73 | 10.3%      |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Y | 0.06 | 0.08 | 0.08 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Z | 0.00 | 0.08 | 0.08 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | X | 0.07 | 0.08 | 0.08 | 0.73 | 10.3%      |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Y | 0.07 | 0.08 | 0.08 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Z | 0.07 | 0.08 | 0.08 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | X | 0.01 | 0.01 | 0.01 | 0.01 | 21.4%      |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Y | 0.01 | 0.01 | 0.01 | 1.00 | 100%       |
| 100% | 3000 MHz WCDMA 3.4 GHz (SBBE-T) | Z | 0.01 | 0.01 | 0.01 | 1.00 | 100%       |

Certificate No: ES3DV3\_KqjF8 Page 12 of 12





EX3DV4 Sn:3708

EX3DV4 - SN:3708 November 10, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

Calibration Parameter Determined in Head Tissue Simulating Media

| 1.5MHz <sup>1</sup> | Resonance Frequency <sup>2</sup> | Gain/Quality <sup>3</sup> | Coef. X <sup>4</sup> | Coef. Y <sup>4</sup> | Coef. Z <sup>4</sup> | Gain <sup>5</sup> | Unc. (95%)    |
|---------------------|----------------------------------|---------------------------|----------------------|----------------------|----------------------|-------------------|---------------|
| 300                 | 47.2                             | 0.87                      | 0.00                 | 0.00                 | 0.00                 | 0.44              | 0.00 ± 12.2 % |
| 1000                | 48.2                             | 1.40                      | 7.04                 | 7.04                 | 7.04                 | 0.36              | 0.00 ± 12.2 % |
| 2000                | 49.2                             | 1.40                      | 7.04                 | 7.04                 | 7.04                 | 0.31              | 0.00 ± 12.2 % |
| 3000                | 50.2                             | 1.38                      | 7.11                 | 7.11                 | 7.11                 | 0.28              | 0.00 ± 12.2 % |
| 4000                | 50.2                             | 1.38                      | 7.11                 | 7.11                 | 7.11                 | 0.24              | 0.00 ± 12.2 % |
| 5000                | 50.2                             | 1.38                      | 7.11                 | 7.11                 | 7.11                 | 0.20              | 0.00 ± 12.2 % |
| 6000                | 50.2                             | 1.38                      | 7.11                 | 7.11                 | 7.11                 | 0.16              | 0.00 ± 12.2 % |
| 7000                | 50.2                             | 1.38                      | 7.11                 | 7.11                 | 7.11                 | 0.12              | 0.00 ± 12.2 % |
| 8000                | 50.2                             | 1.38                      | 7.11                 | 7.11                 | 7.11                 | 0.08              | 0.00 ± 12.2 % |
| 9000                | 50.2                             | 1.38                      | 7.11                 | 7.11                 | 7.11                 | 0.04              | 0.00 ± 12.2 % |

<sup>1</sup>Frequency: 1.5MHz to 9000MHz at 1MHz intervals (9000MHz is not included in the table).  
<sup>2</sup>Resonance Frequency: 47.2MHz to 50.2MHz at 1MHz intervals (47.2MHz is not included in the table).  
<sup>3</sup>Gain/Quality: 0.87 to 1.40 at 1MHz intervals (0.87 is not included in the table).  
<sup>4</sup>Coef. X, Y, Z: 0.00 to 7.11 at 1MHz intervals (0.00 is not included in the table).  
<sup>5</sup>Gain: 0.44 to 0.04 at 1MHz intervals (0.44 is not included in the table).  
<sup>6</sup>Uncertainty: ± 12.2%.

EX3DV4 - SN:3708 November 10, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708

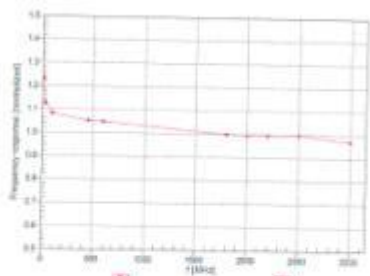
Calibration Parameter Determined in Body Tissue Simulating Media

| 1.5MHz <sup>1</sup> | Resonance Frequency <sup>2</sup> | Gain/Quality <sup>3</sup> | Coef. X <sup>4</sup> | Coef. Y <sup>4</sup> | Coef. Z <sup>4</sup> | Gain <sup>5</sup> | Unc. (95%)    |
|---------------------|----------------------------------|---------------------------|----------------------|----------------------|----------------------|-------------------|---------------|
| 300                 | 58.2                             | 1.00                      | 0.00                 | 0.00                 | 0.00                 | 0.44              | 0.00 ± 12.2 % |
| 1000                | 59.2                             | 1.50                      | 7.79                 | 7.79                 | 7.79                 | 0.44              | 0.00 ± 12.2 % |
| 2000                | 60.2                             | 1.52                      | 7.71                 | 7.71                 | 7.71                 | 0.40              | 0.00 ± 12.2 % |
| 3000                | 62.2                             | 1.38                      | 7.27                 | 7.27                 | 7.27                 | 0.40              | 0.00 ± 12.2 % |
| 4000                | 62.2                             | 1.38                      | 7.27                 | 7.27                 | 7.27                 | 0.36              | 0.00 ± 12.2 % |
| 5000                | 62.2                             | 1.38                      | 7.27                 | 7.27                 | 7.27                 | 0.32              | 0.00 ± 12.2 % |
| 6000                | 62.2                             | 1.38                      | 7.27                 | 7.27                 | 7.27                 | 0.28              | 0.00 ± 12.2 % |
| 7000                | 62.2                             | 1.38                      | 7.27                 | 7.27                 | 7.27                 | 0.24              | 0.00 ± 12.2 % |
| 8000                | 62.2                             | 1.38                      | 7.27                 | 7.27                 | 7.27                 | 0.20              | 0.00 ± 12.2 % |
| 9000                | 62.2                             | 1.38                      | 7.27                 | 7.27                 | 7.27                 | 0.16              | 0.00 ± 12.2 % |

<sup>1</sup>Frequency: 1.5MHz to 9000MHz at 1MHz intervals (9000MHz is not included in the table).  
<sup>2</sup>Resonance Frequency: 58.2MHz to 62.2MHz at 1MHz intervals (58.2MHz is not included in the table).  
<sup>3</sup>Gain/Quality: 1.00 to 1.52 at 1MHz intervals (1.00 is not included in the table).  
<sup>4</sup>Coef. X, Y, Z: 0.00 to 7.79 at 1MHz intervals (0.00 is not included in the table).  
<sup>5</sup>Gain: 0.44 to 0.16 at 1MHz intervals (0.44 is not included in the table).  
<sup>6</sup>Uncertainty: ± 12.2%.

EX3DV4 - SN:3708 November 10, 2016

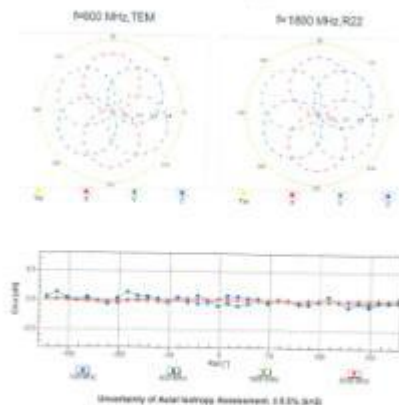
Frequency Response of E-Field  
(TEM-Cell:0110 EXL Waveguide: R22)



Uncertainty of Frequency Response of E-Field: ± 0.2% (k=1)

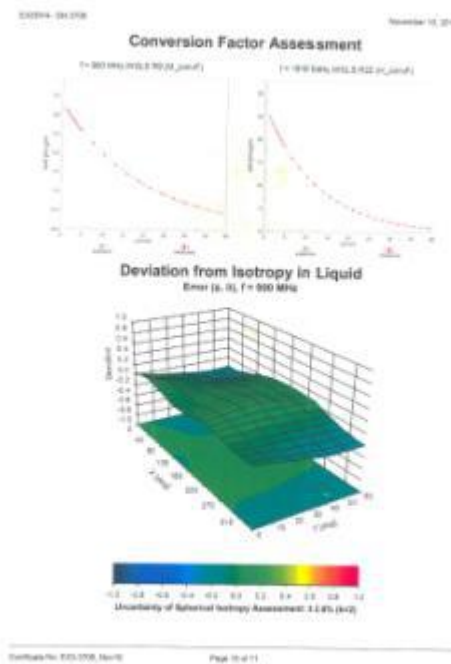
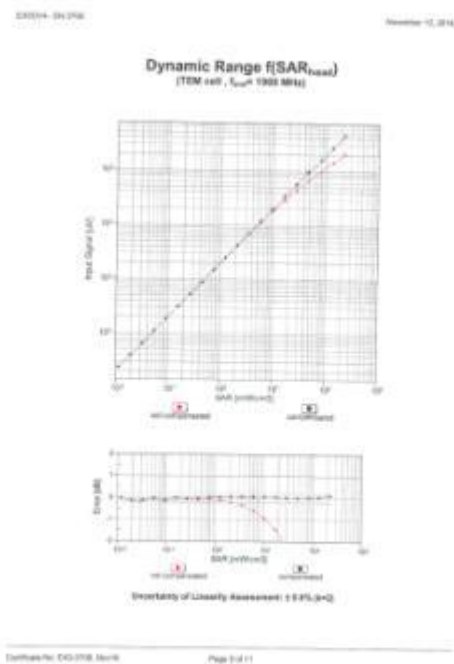
EX3DV4 - SN:3708 November 10, 2016

Receiving Pattern (θ, φ = 0°)



Uncertainty of Axial Isotropy Assessment: ± 0.2% (k=1)

EX3DV4 Sn:3708



EX3DV4 - Sn:3708 November 10, 2018

**DASY/EASY - Parameters of Probe: EX3DV4 - SN:3708**

**Other Probe Parameters**

|   |            |
|---|------------|
| Sensor Arrangement                            | Triangular |
| Sensor Angle [°]                              | -1.3       |
| Mechanical Surface Detector Mode              | enabled    |
| Optical Surface Detector Mode                 | disabled   |
| Probe Overall Length                          | 331 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 8 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 7 mm       |
| Probe Tip to Sensor Y Calibration Point       | 7 mm       |
| Probe Tip to Sensor Z Calibration Point       | 7 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

Certificate No: EX3DV4\_Sn3708 Page 11 of 11



D750V3 Sn:1101

DASY5 Validation Report for Head TSL

Date: 24.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz, Type: D750V3, Serial: D750V3-SN:1101

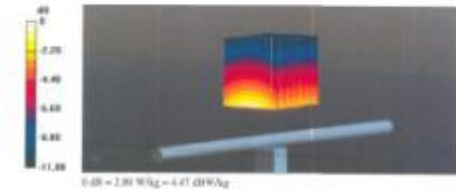
Communication System: UED-G-CW, Frequency: 750 MHz  
Medium parameters used:  $f = 750 \text{ MHz}$ ,  $n = 0.92306$ ,  $\epsilon_r = 41.1$ ,  $\rho = 0.0004 \text{ g/cm}^3$   
Phantom used: Flat Surface  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.10-2011)

DASY5 Configuration:

- Probe: E5032V4-SN7148, Case F10107, H07, 1047, Calibrated: 13.06.2016
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DA24 36W1, Calibrated: 30.12.2015
- Phantom: Flat Phantom 4-RL, Type: Q000P00AA, Serial: 1001
- DASY5: 52.8.8.0.291, SIMCAD X 14.6.00.0121

Dipole Calibration for Head Throat/Plane 200 mW, d=15mm/Zoom Scan (7x7x7)/Cube B:

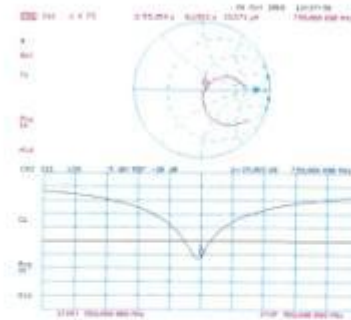
Measurement grid:  $d_x=7\text{mm}$ ,  $d_y=7\text{mm}$ ,  $d_z=7\text{mm}$   
Reference Value = 50.00 V/m, Power Dens = 0.00 dB  
Peak SAR (averaged) = 2.13 W/kg  
SAR(1g) = 2.11 W/kg, SAR(10g) = 1.38 W/kg  
Maximum value of SAR (measured) = 2.80 W/kg



Certificate No: D750V3-101\_2016

Page 3 of 8

Impedance Measurement Plot for Head TSL



Certificate No: D750V3-101\_2016

Page 8 of 8

DASY5 Validation Report for Body TSL

Date: 24.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz, Type: D750V3, Serial: D750V3-SN:1101

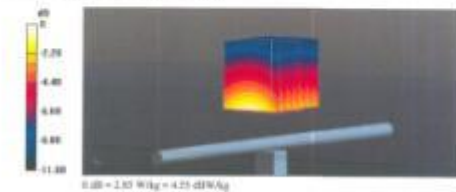
Communication System: UED-G-CW, Frequency: 750 MHz  
Medium parameters used:  $f = 750 \text{ MHz}$ ,  $n = 0.97306$ ,  $\epsilon_r = 35.8$ ,  $\rho = 0.0004 \text{ g/cm}^3$   
Phantom used: Flat Surface  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.10-2011)

DASY5 Configuration:

- Probe: E5032V4-SN7148, Case F10107, H08, 9190, Calibrated: 13.06.2016
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DA24 36W1, Calibrated: 30.12.2015
- Phantom: Flat Phantom 4-RL, Type: Q000P00AA, Serial: 1001
- DASY5: 52.8.8.0.291, SIMCAD X 14.6.00.0121

Dipole Calibration for Body Throat/Plane 200 mW, d=15mm/Zoom Scan (7x7x7)/Cube B:

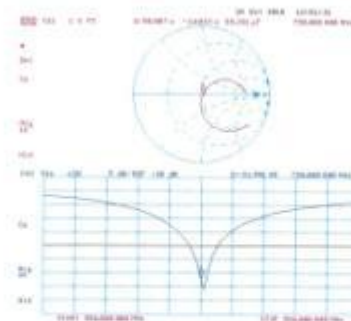
Measurement grid:  $d_x=7\text{mm}$ ,  $d_y=7\text{mm}$ ,  $d_z=7\text{mm}$   
Reference Value = 50.73 V/m, Power Dens = 0.00 dB  
Peak SAR (averaged) = 2.19 W/kg  
SAR(1g) = 2.17 W/kg, SAR(10g) = 1.44 W/kg  
Maximum value of SAR (measured) = 2.85 W/kg



Certificate No: D750V3-101\_2016

Page 7 of 8

Impedance Measurement Plot for Body TSL



Certificate No: D750V3-101\_2016

Page 8 of 8



D835V2 Sn:4d023

DASY5 Validation Report for Head TSL

Date: 26.10.2016

The Laboratory: SP5AG, Zurich, Switzerland

EUT: Dipole K35 Mini, Type: D835V2, Serial: D835V2 - SN:4d023

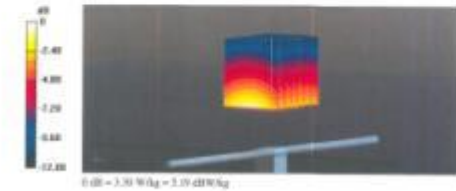
Communication System: UED 0 - CW, Frequency: 835 MHz  
Medium parameters used:  $f = 835 \text{ MHz}$ ,  $n = 0.975$ ,  $\epsilon_r = 40.8$ ,  $\rho = 1000 \text{ kg/m}^3$   
Phantom used: Flat Surface  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19:2011)

DASY5 Configuration:

- Probe: ESDP4 - SN7548, Case(FX 7), 6.73, 6.73; Calibration: 13.06.2016
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DA24 SoftD, Calibration: 31.12.2015
- Phantom Flat Phantom A.H., Type: QD00P45AA, Serial: 1001
- DASY5: 52.8.8(129); SEMCAD X 14.6.10(372)

Dipole Calibration for Head Thimo/Plas=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 8:

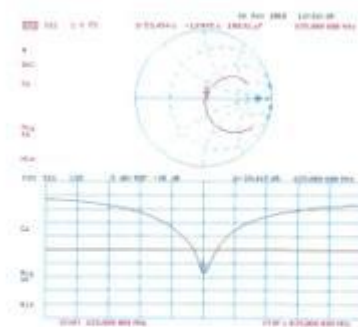
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=5\text{mm}$   
Reference Value = 41.72 V/m, Power Dref = 0.01 dB  
Peak SAR (extrapolated) = 3.73 W/kg  
SAR(1g) = 3.47 W/kg; SAR(10g) = 1.09 W/kg  
Maximum value of SAR (measured) = 3.35 W/kg



Certificate No. 08835-4802\_0016

Page 6 of 6

Impedance Measurement Plot for Head TSL



Certificate No. 08835-4802\_0016

Page 6 of 6

DASY5 Validation Report for Body TSL

Date: 24.10.2016

The Laboratory: SP5AG, Zurich, Switzerland

EUT: Dipole K35 Mini, Type: D835V2, Serial: D835V2 - SN:4d023

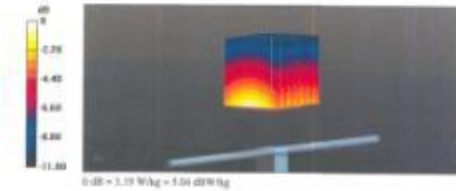
Communication System: UED 0 - CW, Frequency: 835 MHz  
Medium parameters used:  $f = 835 \text{ MHz}$ ,  $n = 0.995$ ,  $\epsilon_r = 15.8$ ,  $\rho = 1000 \text{ kg/m}^3$   
Phantom used: Flat Surface  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19:2011)

DASY5 Configuration:

- Probe: ESDP4 - SN7548, Case(FX 7), 6.73, 6.73; Calibration: 13.06.2016
- Sensor Surface: 1 Area (Mechanical Surface Detection)
- Electronics: DA24 SoftD, Calibration: 31.12.2015
- Phantom Flat Phantom A.H., Type: QD00P45AA, Serial: 1001
- DASY5: 52.8.8(129); SEMCAD X 14.6.10(372)

Dipole Calibration for Body Thimo/Plas=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 8:

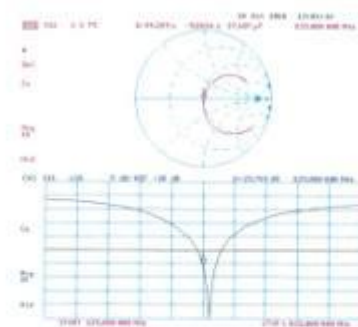
Measurement grid:  $d_x=5\text{mm}$ ,  $d_y=5\text{mm}$ ,  $d_z=5\text{mm}$   
Reference Value = 39.97 V/m, Power Dref = 0.01 dB  
Peak SAR (extrapolated) = 3.70 W/kg  
SAR(1g) = 2.44 W/kg; SAR(10g) = 1.8 W/kg  
Maximum value of SAR (measured) = 3.19 W/kg



Certificate No. 08835-4802\_0016

Page 7 of 6

Impedance Measurement Plot for Body TSL



Certificate No. 08835-4802\_0016

Page 8 of 6





D1900V2 Sn:5d113

DASY5 Validation Report for Head TSL

Date: 31.10.2016

Test Laboratory: SP/AG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2-SN:5d113

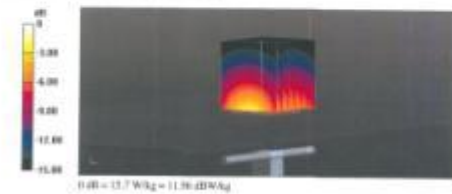
Communication System: UTD 0 - CW; Frequency: 1900 MHz  
Medium parameters used:  $f = 1900 \text{ MHz}$ ,  $n = 1.50$ ,  $\sigma = 45.0$ ,  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19:2011)

DASY5 Configuration:

- Probe: EXD14 - SNT140; Core(F) 7.00, T.00, Y.00; Calibration: 15.06.2016
- Sensor Surface: 1.6mm (Mechanical Surface Detection)
- Electronics: DAD1 160H; Calibration: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 0302
- DASY5: 02.8.0(128); SEMCAD X 14.6.0(1312)

Dipole Calibration for Head Tissue/Plane=250 mW, 6-Hmm/Zoom Scan (7x7x7)Cube R:

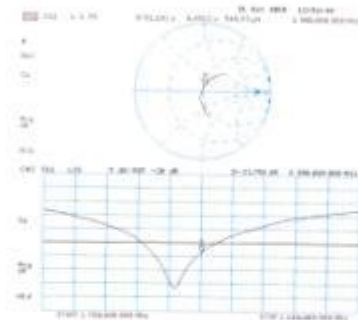
Measurement grid:  $d_x=10\text{mm}$ ,  $d_y=10\text{mm}$ ,  $d_z=10\text{mm}$   
Reference Value = 10.4 W/kg; Power DUT = 0.10 dB  
Peak SAR (estimated) = 19.8 W/kg  
SAR(1g) = 10.1 W/kg; SAR(10g) = 6.3 W/kg  
Minimum value of SAR (measured) = 15.7 W/kg



Certificate No: 016000-00113\_0016

Page 4 of 4

Impedance Measurement Plot for Head TSL



Certificate No: 016000-00113\_0016

Page 5 of 8

DASY5 Validation Report for Body TSL

Date: 31.10.2016

Test Laboratory: SP/AG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2-SN:5d113

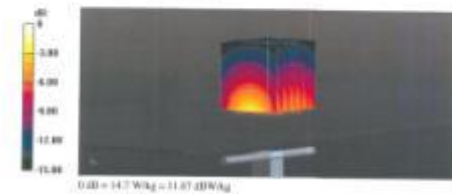
Communication System: UTD 0 - CW; Frequency: 1900 MHz  
Medium parameters used:  $f = 1900 \text{ MHz}$ ,  $n = 1.44$ ,  $\sigma = 55.2$ ,  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19:2011)

DASY5 Configuration:

- Probe: EXD14 - SNT140; Core(F) 0.0, 0.0, 0.0; Calibration: 15.06.2016
- Sensor Surface: 1.6mm (Mechanical Surface Detection)
- Electronics: DAD1 160H; Calibration: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 0302
- DASY5: 02.8.0(128); SEMCAD X 14.6.0(1312)

Dipole Calibration for Body Tissue/Plane=250 mW, 6-Hmm/Zoom Scan (7x7x7)Cube R:

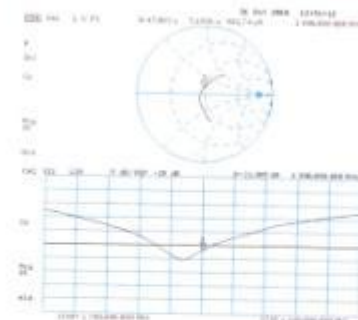
Measurement grid:  $d_x=10\text{mm}$ ,  $d_y=10\text{mm}$ ,  $d_z=10\text{mm}$   
Reference Value = 10.5 W/kg; Power DUT = 0.10 dB  
Peak SAR (estimated) = 17.2 W/kg  
SAR(1g) = 9.8 W/kg; SAR(10g) = 6.23 W/kg  
Minimum value of SAR (measured) = 14.7 W/kg



Certificate No: 016000-00113\_0016

Page 7 of 8

Impedance Measurement Plot for Body TSL



Certificate No: 016000-00113\_0016

Page 8 of 8

D2450V2 Sn:738

Calibration Laboratory of Schmid & Partner Engineering AG  
 Accredited by the Swiss Accreditation Service (SAS) for the Swiss Accreditation Service in accordance with the Swiss Multilateral Agreement for the recognition of calibration certificates  
 Accreditation No.: SCS 0158

**CALIBRATION CERTIFICATE**  
 Name: D2450V2 - 094738  
 Calibration certificate: CAL-05-09  
 Calibration date: October 25, 2016

The calibration certificate documents the conformity to national standards, which involve the physical units of measurement, and the traceability of the measurements with confidence intervals as given in the following pages, against all of the standards.  
 All calibration facilities conform to the most stringent quality management standards ISO 9001 and ISO 17025.

| Device                       | Lot       | Old Date (Certificate No.) | Expiration date |
|------------------------------|-----------|----------------------------|-----------------|
| Power meter MP               | 104 14716 | 30-Apr-14 (No. 1110000020) | Apr-17          |
| Power sensor HP-201          | 101 10284 | 30-Apr-14 (No. 111000001)  | Apr-17          |
| Power sensor HP-201          | 100 10283 | 30-Apr-14 (No. 111000000)  | Apr-17          |
| Reference diode HP-Reference | 104 14716 | 30-Apr-14 (No. 111000002)  | Apr-17          |
| Temperature calibration      | 101 10281 | 30-Apr-14 (No. 111000001)  | Apr-17          |
| Reference Probe D2450V2      | 101 10282 | 30-Apr-14 (No. 111000000)  | Apr-17          |
| DAQ                          | 101 10283 | 30-Apr-14 (No. 111000000)  | Apr-17          |

Calibrated by: Schmid & Partner Engineering AG  
 Approved by: [Signature]

Certificate No: D2450V2-094738, Oct16 Page 1 of 8

Calibration Laboratory of Schmid & Partner Engineering AG  
 Accredited by the Swiss Accreditation Service (SAS) for the Swiss Accreditation Service in accordance with the Swiss Multilateral Agreement for the recognition of calibration certificates  
 Accreditation No.: SCS 0158

**Glossary:**  
 TSL: tissue simulating liquid  
 Coref: sensitivity in TSL, IEC60528 5.5.7  
 NA: not applicable or not measured

**Calibration is Performed According to the Following Standards:**  
 a) IEEE Std 1528-2010, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Technique", June 2010  
 b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005  
 c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 3 GHz)", March 2010  
 d) IEC 60528, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**  
 a) DASYS System Handbook

**Methods Applied and Interpretation of Parameters:**  
 • **Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.  
 • **Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the carrier marking of the far phantom section, with the arms oriented parallel to the body axis.  
 • **Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance is stated as transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.  
 • **Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.  
 • **SAR measured:** SAR measured at the distal antenna input power.  
 • **SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.  
 • **SAR for normal TSL parameters:** The measured TSL parameters are used to calculate the normal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D2450V2-094738, Oct16 Page 2 of 8

**Measurement Conditions**  
 DASYS system configuration, see for 30.00 given on page 1

| Category                     | Value                    | Unit        |
|------------------------------|--------------------------|-------------|
| DASYS Version                | DASYS                    | V07.0.0     |
| Substitutions                | Additional Substitutions |             |
| Phantom                      | Modular Far Phantom      |             |
| Distance Dipole Center - TSL | 30 mm                    | with spacer |
| Exact Head Resolution        | 8x, 5x, 3x = 9 mm        |             |
| Frequency                    | 2450 MHz ± 1 MHz         |             |

**Head TSL parameters**  
 The following parameters and regulations apply:

| Parameter                               | Temperature   | Permittivity | Conductivity     |
|---|---------------|--------------|------------------|
| Normal Head TSL parameters              | 33.0 °C       | 39.2         | 1.80 nS/cm       |
| Measured Head TSL parameters            | 32.0 ± 0.2 °C | 39.2 ± 0.5 % | 1.87 nS/cm ± 4 % |
| Head TSL temperature change during test | < 0.3 °C      | ---          | ---              |

**SAR result with Head TSL**

| Parameter   | Condition          | Value                     |
|---|--------------------|---------------------------|
| SAR averaged over 1 cm <sup>2</sup> (1 g) of Head TSL | Condition          |                           |
| SAR measured  | 250 mW input power | 13.7 mW/kg                |
| SAR for normal Head TSL parameters                    | normalized to 1W   | 51.2 mW/kg ± 17.8 % (k=2) |

**Body TSL parameters**  
 The following parameters and regulations apply:

| Parameter                               | Temperature   | Permittivity | Conductivity     |
|---|---------------|--------------|------------------|
| Normal Body TSL parameters              | 33.0 °C       | 52.7         | 1.80 nS/cm       |
| Measured Body TSL parameters            | 32.0 ± 0.2 °C | 52.0 ± 0.5 % | 0.36 nS/cm ± 8 % |
| Body TSL temperature change during test | < 0.3 °C      | ---          | ---              |

**SAR result with Body TSL**

| Parameter   | Condition          | Value                     |
|---|--------------------|---------------------------|
| SAR averaged over 1 cm <sup>2</sup> (1 g) of Body TSL | Condition          |                           |
| SAR measured  | 250 mW input power | 13.0 mW/kg                |
| SAR for normal Body TSL parameters                    | normalized to 1W   | 50.8 mW/kg ± 17.0 % (k=2) |

Certificate No: D2450V2-094738, Oct16 Page 3 of 8

**Appendix (Additional assessments outside the scope of SCS 0108)**

**Antenna Parameters with Head TSL**

| Parameter                            | Value        |
|--------------------------------------|--------------|
| Impedance, transformed to feed point | 95.8 ± 0.1 Ω |
| Return loss                          | 27.0 dB      |

**Antenna Parameters with Body TSL**

| Parameter                            | Value        |
|--------------------------------------|--------------|
| Impedance, transformed to feed point | 48.7 ± 0.2 Ω |
| Return loss                          | 28.0 dB      |

**General Antenna Parameters and Design**

| Parameter                        | Value    |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.187 ns |

After long term use with 100W calibration power, and a slight warming of the dipole loop, the feedpoint can be measured.  
 The study is made of standard weight coated cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The external reference point considered for ICN alignment. The arms of the dipole, and all wires are soldered to the dipole arms in order to improve matching when tested according to the position as explained in the "Measurement Conditions" paragraph. The SAR value is not affected by the change. The overall dipole length is cut according to the standards.  
 No external force must be applied to the dipole arms, because they might bend at the additional connections near the feedpoint may be damaged.

**Additional EUT Data**

| Parameter       | Value           |
|-----------------|-----------------|
| Manufactured by | SPEAD           |
| Manufactured on | August 05, 2015 |

Certificate No: D2450V2-094738, Oct16 Page 4 of 8

D2450V2 Sn:738

DASY5 Validation Report for Head TSL

Date: 25.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

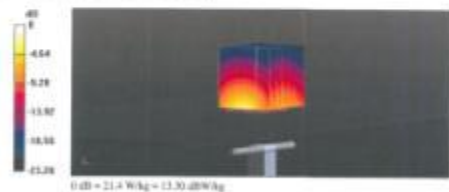
DEU: Dipole 2450 MHz; Type: D2450V2; Serial: D1450V2-SN:738

Communication System: UED 0 - CW; Frequency: 2450 MHz  
Medium parameters used:  $f = 2450$  MHz,  $\sigma = 1.87$  dB,  $\epsilon = 36.2$ ,  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI/CIS 19-2011)

DASY5 Configuration:

- Probe: EX37014 - BN7500; Class: (7.72, 7.72); Calibrated: 15.06.2016
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE9 Sub01; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (Inert); Type: QD00P50AA; Serial: 1001
- DASY5: 52.8.8(159); SEMCAD X 14.4.0K(1512)

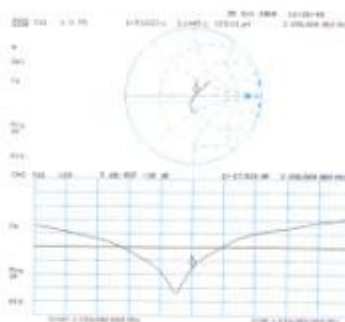
Dipole Calibration for Head Tissue/Plm=250 mW,  $d=10$ mm/Zoom Scan (7x7x7)/Cube 0:  
Measurement grid:  $d_x=5$ mm,  $d_y=5$ mm,  $d_z=1$ mm  
Reference Value = 111.7 V/m; Power Dens = 0.00 dB  
Peak SAR (compressed) = 28.4 W/kg  
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.87 W/kg  
Maximum value of SAR (compressed) = 21.4 W/kg



Certificate No: 2016010738\_0416

Page 5 of 8

Impedance Measurement Plot for Head TSL



Certificate No: 2016010738\_0416

Page 6 of 8

DASY5 Validation Report for Body TSL

Date: 25.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

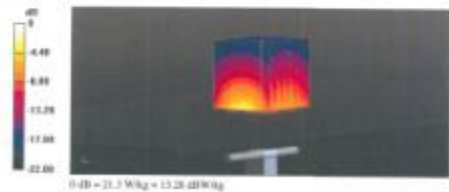
DEU: Dipole 2450 MHz; Type: D2450V2; Serial: D1450V2-SN:738

Communication System: UED 0 - CW; Frequency: 2450 MHz  
Medium parameters used:  $f = 2450$  MHz,  $\sigma = 2.02$  dB,  $\epsilon = 51.3$ ,  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI/CIS 19-2011)

DASY5 Configuration:

- Probe: EX37014 - BN7500; Class: (7.76, 7.76); Calibrated: 15.06.2016
- Sensor Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE9 Sub01; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (Inert); Type: QD00P50AA; Serial: 1001
- DASY5: 52.8.8(159); SEMCAD X 14.4.0K(1512)

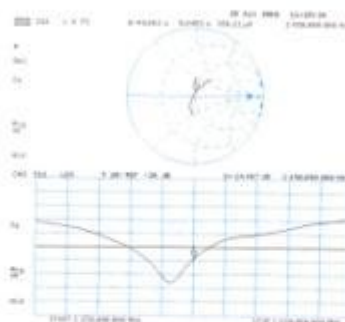
Dipole Calibration for Body Tissue/Plm=250 mW,  $d=10$ mm/Zoom Scan (7x7x7)/Cube 0:  
Measurement grid:  $d_x=5$ mm,  $d_y=5$ mm,  $d_z=1$ mm  
Reference Value = 107.3 V/m; Power Dens = 0.00 dB  
Peak SAR (compressed) = 26.0 W/kg  
SAR(1 g) = 13 W/kg; SAR(10 g) = 6.88 W/kg  
Maximum value of SAR (compressed) = 21.3 W/kg



Certificate No: 2016010738\_0416

Page 7 of 8

Impedance Measurement Plot for Body TSL



Certificate No: 2016010738\_0416

Page 8 of 8

D2600V2 Sn:1089

Calibration Laboratory of  
SRTC & Partner  
Engineering RD  
Registration No. 16, State Radio\_monitoring\_center

Accredited by the State Administration of Science, Technology and Innovation  
The State Accreditation Center in the scope of the agreement for the  
Mutual Recognition Agreement for the recognition of calibration certificates

Client: **Sony Mobile CH (HKT)**      Certificate No: **00889V2-1089\_Jul16**

Accreditation No.: **SGS 0108**

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**CALIBRATION CERTIFICATE**

Client: **00889V2 - SN: 1089**

Calibration procedure: **QA-CAL-05-V1  
Calibration procedure for dipole solderless kits above 700 MHz**

Calibration date: **July 13, 2016**

The calibration certificate is issued for the facilities in which the standards, which make the calibration of the measurement (S),  
The measurement and the calibration are performed under the conditions specified in the following pages and are part of the certificate.

Calibration data may be used only for the conditions under which the calibration was performed. It is not valid for other conditions.

Calibration of Equipment used (MUTUAL RECOGNITION AGREEMENT)

| Equipment               | Model | Serial No. | Calibration Date            |
|-------------------------|-------|------------|-----------------------------|
| Power meter NRP         | 801   | 18079      | 28 Apr 16 09:17:17 (160809) |
| Power sensor NRP-250    | 801   | 10309      | 28 Apr 16 09:17:17 (160809) |
| Power sensor NRP-250    | 801   | 10310      | 28 Apr 16 09:17:17 (160809) |
| Impedance probe PZC-101 | 801   | 10311      | 28 Apr 16 09:17:17 (160809) |
| Head TSL                | 801   | 10312      | 28 Apr 16 09:17:17 (160809) |
| Body TSL                | 801   | 10313      | 28 Apr 16 09:17:17 (160809) |

Special Remarks:

Power meter NRP-250: 801 10310, 801 10311, 801 10312, 801 10313, 801 10314, 801 10315, 801 10316, 801 10317, 801 10318, 801 10319, 801 10320, 801 10321, 801 10322, 801 10323, 801 10324, 801 10325, 801 10326, 801 10327, 801 10328, 801 10329, 801 10330, 801 10331, 801 10332, 801 10333, 801 10334, 801 10335, 801 10336, 801 10337, 801 10338, 801 10339, 801 10340, 801 10341, 801 10342, 801 10343, 801 10344, 801 10345, 801 10346, 801 10347, 801 10348, 801 10349, 801 10350, 801 10351, 801 10352, 801 10353, 801 10354, 801 10355, 801 10356, 801 10357, 801 10358, 801 10359, 801 10360, 801 10361, 801 10362, 801 10363, 801 10364, 801 10365, 801 10366, 801 10367, 801 10368, 801 10369, 801 10370, 801 10371, 801 10372, 801 10373, 801 10374, 801 10375, 801 10376, 801 10377, 801 10378, 801 10379, 801 10380, 801 10381, 801 10382, 801 10383, 801 10384, 801 10385, 801 10386, 801 10387, 801 10388, 801 10389, 801 10390, 801 10391, 801 10392, 801 10393, 801 10394, 801 10395, 801 10396, 801 10397, 801 10398, 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D2600V2 Sn:1089

DASYS Validation Report for Head TSL

Date: 2017/10/16

Test Laboratory: SRTC, Radio\_Monitoring\_Center

DU: Dipole 2000 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1089

Communication System: CDMA; CW; Frequency: 2000 MHz  
Medium parameters used:  $f = 2000$  MHz;  $w = 2.02$  cm;  $h = 17.0$  cm;  $\rho = 980$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/CIS/ANSI C63.19.2011)

DASYS Configuration

- Probe: ES3014 (S7740; Coax: P7350; 7.5x7.5x6; CALIBRATED: 11/06/2016)
- Antenna Surface: 1-Arms (Mechanical Surface Detection)
- Electronic: DA84-S600; Calibrated: 30/12/2015
- Platform: Flat Platform 50 (Access Type: Q000P50AA; Serial: 100)
- DASYS Software (258): SRRCAD X.14.6 (14772)

Dipole Calibration for Head Tissue (Pinc=250 mW, d=11mm/Zoom Scan (7x7x7) (like B))

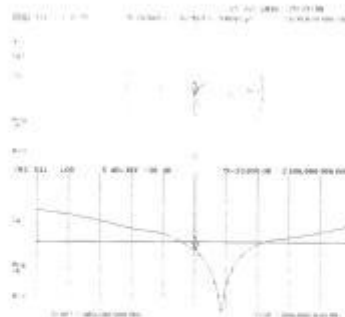
Measurement grid: direction: (x/y/z)cm; distance: (x/y/z)cm  
Reference Value = 17.2 mW; Power Dens = 0.31 dB  
Peak SAR (calibration) = 11.2 W/kg  
SAR10 g = 14.8 W/kg; SAR0.1 g = 8.46 W/kg  
Maximum Value of SAR (estimated) = 21.0 W/kg



File: SRRCAD X.14.6 (14772) (14772)

Page: 1/11

Impedance Measurement Plot for Head TSL



File: SRRCAD X.14.6 (14772) (14772) (14772)

Page: 2/11

DASYS Validation Report for Body TSL

Date: 2017/10/16

Test Laboratory: SRTC, Radio\_Monitoring\_Center

DU: Dipole 2000 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1089

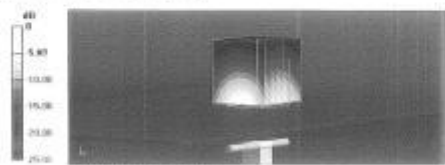
Communication System: CDMA; CW; Frequency: 2000 MHz  
Medium parameters used:  $f = 2000$  MHz;  $w = 2.2$  cm;  $h = 17.0$  cm;  $\rho = 980$  kg/m<sup>3</sup>  
Measurement Standard: DASYS (IEEE/CIS/ANSI C63.19.2011)

DASYS Configuration

- Probe: ES3014 (S7740; Coax: P7345; 7.4x7.4x6; CALIBRATED: 11/06/2016)
- Antenna Surface: 1-Arms (Mechanical Surface Detection)
- Electronic: DA84-S600; Calibrated: 30/12/2015
- Platform: Flat Platform 50 (Access Type: Q000P50AA; Serial: 100)
- DASYS Software (258): SRRCAD X.14.6 (14772)

Dipole Calibration for Body Tissue (Pinc=250 mW, d=11mm/Zoom Scan (7x7x7) (like B))

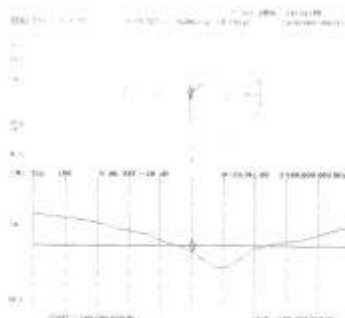
Measurement grid: direction: (x/y/z)cm; distance: (x/y/z)cm  
Reference Value = 109.3 mW; Power Dens = 0.07 dB  
Peak SAR (calibration) = 21.0 W/kg  
SAR10 g = 23.6 W/kg; SAR0.1 g = 14.67 W/kg  
Maximum Value of SAR (estimated) = 21.0 W/kg



File: SRRCAD X.14.6 (14772) (14772)

Page: 3/11

Impedance Measurement Plot for Body TSL



File: SRRCAD X.14.6 (14772) (14772) (14772)

Page: 4/11

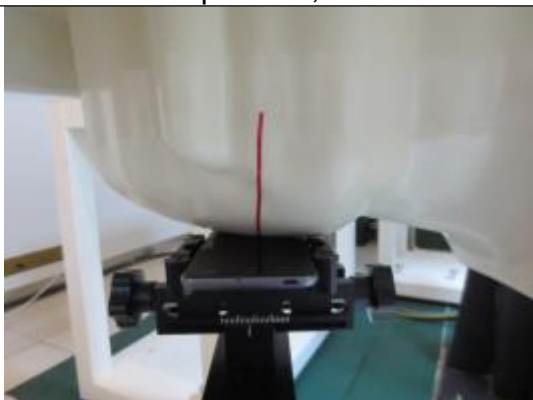
## ANNEX C – PHOTOGRAPH



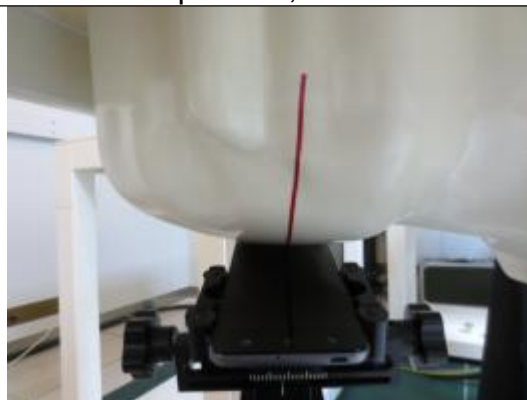
Cheek position, left side



Tilt position, left side



Cheek position, Right side



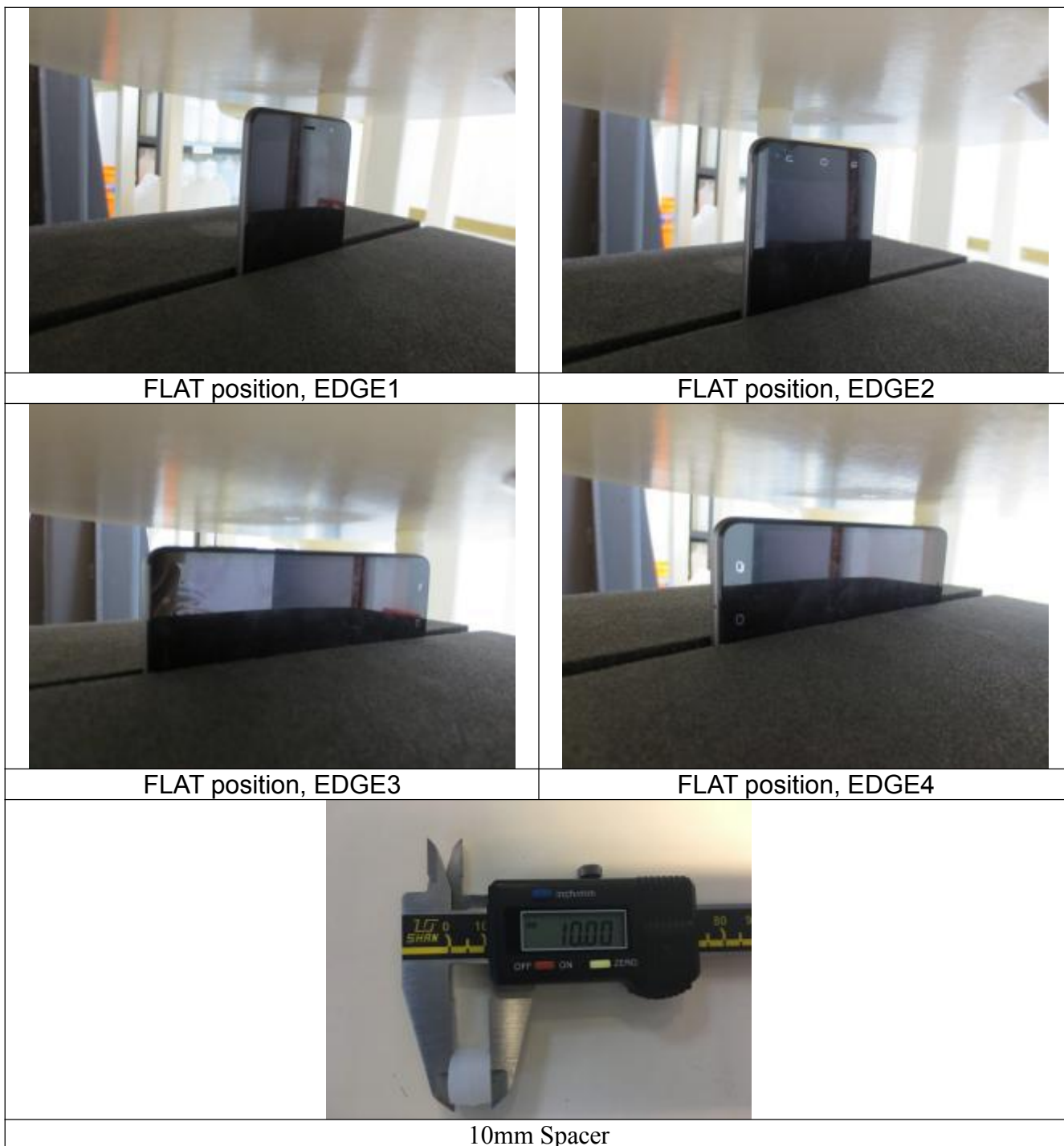
Tilt position, Right side



FLAT position, Towards phantom



FLAT position, Towards ground



---End of Test Report---