

SZSAR-TRF-01-A01 Rev. A/0 May15,2023

Report No.: SZCR240500172711

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# SAR TEST REPORT

**Application No.:** SZCR2405001727AT

**Applicant:** Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian **Address of Applicant:** 

District, Beijing, China 100195

Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian Address of Manufacturer:

District, Beijing, China 100195

**Product Name:** Android POS Terminal

Model No.(EUT): A99 LITE

FCC ID: OWLA99-LITE-A FCC 47CFR §2.1093 Standard(s):

**Date of Receipt:** 2024-06-03

Date of Test: 2024-06-04 to 2024-06-27

2024-07-03 Date of Issue:

Pass\* Test Result:

\* In the configuration tested, the EUT complied with the standards specified above.

Keny. Ku

**EMC Laboratory Manager** 



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| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 00              | Original    | 2024-07-03 | 1      |
|                 |             |            |        |
|                 |             |            |        |

| Authorized for issue by: |                            |  |
|--------------------------|----------------------------|--|
|                          | Roman Pan                  |  |
|                          | Roman Pan/Project Engineer |  |
|                          | Exic Fu                    |  |
|                          | Eric Fu/Reviewer           |  |



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## **TEST SUMMARY**

| Francisco Bond                               | Maximum Reported SAR(W/kg) |
|--|----------------------------|
| Frequency Band                               | Body                       |
| GSM850                                       | 0.304                      |
| GSM1900                                      | 1.417                      |
| WCDMA Band II                                | 1.278                      |
| WCDMA Band V                                 | 0.411                      |
| LTE Band 2                                   | 1.361                      |
| LTE Band 4                                   | 0.959                      |
| LTE Band 5                                   | 0.251                      |
| LTE Band 7                                   | 1.436                      |
| LTE Band 38                                  | 1.419                      |
| LTE Band 40a                                 | 0.362                      |
| LTE Band 40b                                 | 0.408                      |
| LTE Band 41                                  | 1.171                      |
| WI-FI (2.4GHz)                               | 0.041                      |
| WI-FI (5GHz)                                 | 0.272                      |
| ВТ   | 0.023                      |
| SAR Limited(W/kg)                            | 1.6                        |
| Maximum Simultaneous Transmission SAR (W/kg) |                            |
| Scenario                                     | Body                       |
| Sum SAR                                      | 1.57                       |
| SPLSR  | /                          |
| SPLSR Limited                                | 0.04                       |

Remark: This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.



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# 2 General Information

2.1 General Description of EUT

| Product Name:              |   | Android POS Terminal   |                     |  |
|----------------------------|---|--|---------------------|--|
| Model No.(EUT):            | A99 LITE  | A99 LITE   |                     |  |
| Product Phase:             | production unit   | production unit  |                     |  |
| Device Type:               | portable device   |  |                     |  |
| Exposure Category:         | uncontrolled envir  | onment / general population  |                     |  |
| Hardware Version:          | V1.01   |  |                     |  |
| Software Version:          | V1.01   |  |                     |  |
| IMEI/SN:                   | 00074000031   |  |                     |  |
| Antenna Type:              | PIFA antenna  |  |                     |  |
| Antenna Gain:              | 5G: U-NII-1/2A: 4.<br>2G 850:-4.69dBi,<br>4G B2:0.64dBi, B4 | 2.4G: 0.01dBi<br>5G: U-NII-1/2A: 4.25dBi; U-NII-2C/3: 3.31dBi<br>2G 850:-4.69dBi, 1900:0.64dBi, 3G B2:0.64dBi, 5:-4.69dBi,<br>4G B2:0.64dBi, B4:0.15dBi, B5:-4.69dBi, B7:3.18dBi, B38:1.41dBi,<br>B40:2.02dBi; B41:3.18dBi |                     |  |
| Device Operating Configura | ations:   |  |                     |  |
| Modulation Mode:           | LTE:QPSK,16QA   | GSM:GMSK,8PSK;WCDMA:QPSK<br>LTE:QPSK,16QAM;<br>WIFI:DSSS,OFDM;BT: GFSK, π/4DQPSK,8DPSK   |                     |  |
| Device Class:              | В   | В  |                     |  |
| GPRS Multi-slots Class:    | 12  | EGPRS Multi-slots Class:   | 12                  |  |
| HSDPA UE Category:         | 14  | HSUPA UE Category:   | 6                   |  |
|                            | Band  | Tx (MHz)   | Rx (MHz)            |  |
|                            | GSM850  | 824-849  | 824-849             |  |
|                            | GSM1900   | 1850-1910  | 1850-1910           |  |
|                            | WCDMA B2  | 1850-1910  | 1850-1910           |  |
|                            | WCDMA B5  | 824-849  | 824-849             |  |
|                            | LTE Band 2  | 1850-1910  | 1850-1910           |  |
| Frequency Bands:           | LTE Band 4  | 1710-1755  | 1710-1755           |  |
|                            | LTE Band 5  | 824-849  | 824-849             |  |
|                            | LTE Band 7  | 2500-2570  | 2500-2570           |  |
|                            | LTE Band 38   | 2570-2620  | 2570-2620           |  |
|                            | LTE Band 40   | 2305-2315,2350-2360  | 2305-2315,2350-2360 |  |
|                            | LTE Band 41   | 2496-2690  | 2496-2690           |  |
|                            | WIFI(2.4GHz)  | 2412~2462  | 2412~2462           |  |



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| Battery Information1#: | Normal Voltage : Rated capacity : | DC3.80V<br>4000mAh |           |
|------------------------|-----------------------------------|--------------------|-----------|
|                        | Model:                            | BT-99L1            |           |
|                        | GPS                               | /<br>PT 001.4      | 1575.42   |
|                        | NFC                               | 13.56MHz           | 13.56MHz  |
|                        | BT/BLE                            | 2402~2480          | 2402~2480 |
|                        | WIFI(5GHz)                        | 5180~5825          | 5180~5825 |



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#### 2.1.1 DUT Antenna Locations

Please see the Appendix D



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2.2 Test Specification

| Identity              | Document Title  |
|-----------------------|---|
| FCC 47CFR §2.1093     | Radio frequency Radiation Exposure Evaluation: Portable Devices   |
| IEEE Std C95.1 – 1992 | IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz   |
| IEEE Std 1528-2013    | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques |
| KDB 447498 D04v01     | RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices   |
| KDB 248227 D01        | SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02   |
| KDB 941225 D05 v02r05 | SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES   |
| KDB 941225 D01 v03r01 | 3G SAR Measurement Procedures   |
| KDB 865664 D01 v01r04 | SAR Measurement Requirements for 100 MHz to 6 GHz   |
| KDB 865664 D01 v01r02 | RF Exposure Compliance Reporting and Documentation Considerations   |



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## 2.3 RF exposure limits

| Human Exposure           | Uncontrolled Environment General Population | Controlled Environment Occupational |  |
|--------------------------|---|-------------------------------------|--|
| Spatial Peak SAR*        | 1.60 W/kg                                   | 8.00 W/kg                           |  |
| (Brain*Trunk)            | 1.00 W/kg                                   | 6.00 VV/kg                          |  |
| Spatial Average SAR**    | 0.08 W/kg                                   | 0.40 W/kg                           |  |
| (Whole Body)             | 0.08 W/kg                                   | 0.40 W/kg                           |  |
| Spatial Peak SAR***      | 4.00 \\//kg                                 | 20.00 \\/\/\c                       |  |
| (Hands/Feet/Ankle/Wrist) | 4.00 W/kg                                   | 20.00 W/kg                          |  |

#### Notes:

**Uncontrolled Environments** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**Controlled Environments** are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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<sup>\*</sup> The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

<sup>\*\*</sup> The Spatial Average value of the SAR averaged over the whole body.

<sup>\*\*\*</sup> The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



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#### 2.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 2.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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# 3 Laboratory Environment

| Temperature  | Min. = 18°C, Max. = 25 °C |  |
|--|---------------------------|--|
| Relative humidity  | Min. = 30%, Max. = 70%    |  |
| Ground system resistance   | < 0.5 Ω                   |  |
| Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards. |                           |  |



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# 4 SAR Measurements System Configuration

# 4.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|2)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-Simulate.

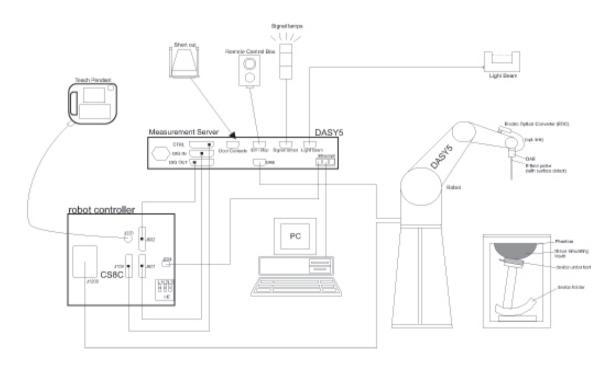
The DASY system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration



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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control
  of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows system.
- DASY software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validat the proper functioning of the system.



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# 4.2 Isotropic E-field Probe EX3DV4

|               | Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)   |
|---------------|---|
| Calibration   | ISO/IEC 17025 calibration service available.  |
| Frequency     | 10 MHz to > 6 GHz<br>Linearity: ± 0.2 dB (30 MHz to 6 GHz)  |
| Directivity   | ± 0.3 dB in TSL (rotation around probe axis)<br>± 0.5 dB in TSL (rotation normal to probe axis)   |
| Dynamic Range | 10 μW/g to > 100 mW/g<br>Linearity: ± 0.2 dB (noise: typically < 1 μW/g)  |
| Dimensions    | Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm  |
| 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%. |
| Compatibility | DASY52 SAR and higher, EASY4/MRI  |



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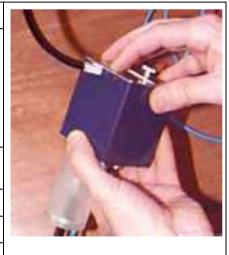
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4.3 Data Acquisition Electronics (DAE)

| Model                | DAE4   |
|----------------------|--|
| Construction         | Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop. |
| Measurement<br>Range | -100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)  |
| Input Offset Voltage | < 5μV (with auto zero)   |
| Input Bias Current   | < 50 f A   |
| Dimensions           | 60 x 60 x 68 mm  |



#### 4.4 SAM Twin Phantom

| Material                                | Vinylester, glass fiber reinforced (VE-GF)                            |
|---|---|
| Liquid Compatibility                    | Compatible with all SPEAG tissue simulating liquids (incl. DGBE type) |
| Shell Thickness                         | 2 ± 0.2 mm (6 ± 0.2 mm at ear point)                                  |
| Dimensions<br>(incl. Wooden<br>Support) | Length: 1000 mm<br>Width: 500 mm<br>Height: adjustable feet           |
| Filling Volume                          | approx. 25 liters   |
| Wooden Support                          | SPEAG standard phantom table  |



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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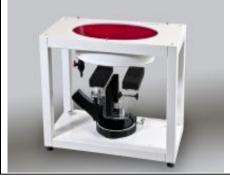
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### 4.5 ELI Phantom

| Material                | Vinylester, glass fiber reinforced (VE-GF)                            |
|-------------------------|---|
| Liquid<br>Compatibility | Compatible with all SPEAG tissue simulating liquids (incl. DGBE type) |
| Shell Thickness         | 2.0 ± 0.2 mm (bottom plate)   |
| Dimensions              | Major axis: 600 mm<br>Minor axis: 400 mm                              |
| Filling Volume          | approx. 30 liters   |
| Wooden Support          | SPEAG standard phantom table  |



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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## 4.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\varepsilon$ =3 and loss tangent  $\delta$ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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## 4.7 Measurement procedure

#### 4.7.1 Scanning procedure

#### Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

#### Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm\*15mm or 12mm\*12mm or 10mm\*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

#### Step 3: Zoom scan

Around this point, a volume of 30mm\*30mm\*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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|  |   |   | ≤3 GHz  | > 3 GHz  |  |  |
|--|---|---|---|--|--|--|
| Maximum distance from  |   | •   | 5 ± 1 mm  | ½·δ·ln(2) ± 0.5 mm   |  |  |
| Maximum probe angle<br>surface normal at the n                           |   |   | 30° ± 1°  | 20° ± 1°   |  |  |
|  |   |   | ≤2 GHz: ≤15 mm<br>2 – 3 GHz: ≤12 mm   | 3 – 4 GHz: ≤ 12 mm<br>4 – 6 GHz: ≤ 10 mm                       |  |  |
| Maximum area scan sp   | atial resolt  | ntion: $\Delta x_{Area}$ , $\Delta y_{Area}$  | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |  |  |  |
| Maximum zoom scan s  | spatial reso  | lution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$   | ≤ 2 GHz: ≤ 8 mm<br>2 – 3 GHz: ≤ 5 mm*   | 3 – 4 GHz: ≤ 5 mm*<br>4 – 6 GHz: ≤ 4 mm*                       |  |  |
|  | uniform   | grid: Δz <sub>Zoom</sub> (n)  | ≤ 5 mm  | 3 – 4 GHz: ≤ 4 mm<br>4 – 5 GHz: ≤ 3 mm<br>5 – 6 GHz: ≤ 2 mm    |  |  |
| Maximum zoom scan<br>spatial resolution,<br>normal to phantom<br>surface | graded  | Δz <sub>Zoom</sub> (1): between<br>1 <sup>st</sup> two points closest<br>to phantom surface | ≤ 4 mm  | 3 – 4 GHz: ≤ 3 mm<br>4 – 5 GHz: ≤ 2.5 mm<br>5 – 6 GHz: ≤ 2 mm  |  |  |
|  | grid $\Delta z_{Z_{0000}}(n>1)$ : between subsequent points |   | $\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$   |  |  |  |
| Minimum zoom scan<br>volume  | x, y, z   |   | ≥ 30 mm   | 3 – 4 GHz: ≥ 28 mm<br>4 – 5 GHz: ≥ 25 mm<br>5 – 6 GHz: ≥ 22 mm |  |  |

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

#### Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. ± 5 %



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When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is  $\leq 1.4$  W/kg,  $\leq 8$  mm,  $\leq 7$  mm and  $\leq 5$  mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



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#### 4.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/q], [m W/cm<sup>2</sup>], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

#### 4.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

- Conversion factor ConvFi - Diode compression point Dcpi

f Device parameters: - Frequency

- Crest factor

Media parameters: - Conductivity ε

- Density

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DCtransmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

Vi = compensated signal of channel i (i = x, y, z) Ui = input signal of channel i ( i = x, y, z )



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cf = crest factor of exciting field (DASY parameter) dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

Vi = compensated signal of channel i

Normi = sensor sensitivity of channel I (i = x, y, z)

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 \frac{2}{3770} P_{pwe} = H_{tot}^2 \cdot 37.7$$

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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# SAR measurement variability and uncertainty 5.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, 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. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 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 ≥ 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 ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



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# 5.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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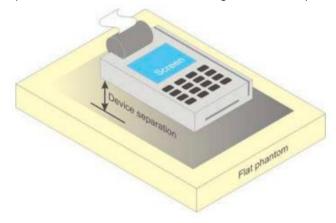
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#### **Description of Test Position** 6

## 6.1 Extremity exposure conditions

Devices that are designed or intended for use on extremities, or mainly operated in extremity only exposure conditions, i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Test Exclusion Thresholds in 8.2 should be applied to determine SAR test requirements. When extremity SAR testing is required, a flat phantom must be used if the exposure condition is more conservative than the actual use conditions; otherwise, a KDB inquiry is required to determine the phantom and test requirements. Body SAR compliance is also tested with a flat phantom. For devices with irregular shapes or form factors that do not conform to a flat phantom, and/or unusual operating configurations and exposure conditions, a KDB inquiry is also required to determine the appropriate SAR measurement procedures. Unless it is specified differently in the published RF exposure KDB procedures, when simultaneous transmission applies to extremity exposure, the simultaneous transmission SAR test exclusion provisions should be applied. When simultaneous transmission SAR measurement is required, the enlarged zoom scan and volume scan postprocessing procedures in KDB Publication 865664 D01 should be applied.

SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with the device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.



F-3. Test positions for hand-held supported devices



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# **SAR System Verification Procedure**

# 7.1 Tissue Simulate Liquid

## 7.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

| Ingredients         | Frequency<br>(MHz) |       |       |      |       |       |       |      |      |      |
|---------------------|--------------------|-------|-------|------|-------|-------|-------|------|------|------|
| (% by weight)       | 45                 | 50    | 835   |      | 915   |       | 1900  |      | 2450 |      |
| Tissue Type         | Head               | Body  | Head  | Body | Head  | Body  | Head  | Body | Head | Body |
| Water               | 38.56              | 51.16 | 41.45 | 52.4 | 41.05 | 56.0  | 54.9  | 40.4 | 62.7 | 73.2 |
| Salt (NaCl)         | 3.95               | 1.49  | 1.45  | 1.4  | 1.35  | 0.76  | 0.18  | 0.5  | 0.5  | 0.04 |
| Sugar               | 56.32              | 46.78 | 56.0  | 45.0 | 56.5  | 41.76 | 0.0   | 58.0 | 0.0  | 0.0  |
| HEC                 | 0.98               | 0.52  | 1.0   | 1.0  | 1.0   | 1.21  | 0.0   | 1.0  | 0.0  | 0.0  |
| Bactericide         | 0.19               | 0.05  | 0.1   | 0.1  | 0.1   | 0.27  | 0.0   | 0.1  | 0.0  | 0.0  |
| Triton X-100        | 0.0                | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 36.8 | 0.0  |
| DGBE                | 0.0                | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 44.92 | 0.0  | 0.0  | 26.7 |
| Dielectric Constant | 43.42              | 58.0  | 42.54 | 56.1 | 42.0  | 56.8  | 39.9  | 54.0 | 39.8 | 52.5 |
| Conductivity (S/m)  | 0.85               | 0.83  | 0.91  | 0.95 | 1.0   | 1.07  | 1.42  | 1.45 | 1.88 | 1.78 |

HSL5GHz is composed of the following ingredients:

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

Water: 64-78% Mineral oil: 11-18% Emulsifiers: 9-15% Sodium salt: 2-3%



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#### 7.1.2 Test Liquids Confirmation

#### Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

#### IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

| Target Frequency | He   | ad      | Body |         |  |
|------------------|------|---------|------|---------|--|
| (MHz)            | εr   | σ (S/m) | εr   | σ (S/m) |  |
| 150              | 52.3 | 0.76    | 61.9 | 0.80    |  |
| 300              | 45.3 | 0.87    | 58.2 | 0.92    |  |
| 450              | 43.5 | 0.87    | 56.7 | 0.94    |  |
| 835              | 41.5 | 0.90    | 55.2 | 0.97    |  |
| 900              | 41.5 | 0.97    | 55.0 | 1.05    |  |
| 915              | 41.5 | 0.98    | 55.0 | 1.06    |  |
| 1450             | 40.5 | 1.20    | 54.0 | 1.30    |  |
| 1610             | 40.3 | 1.29    | 53.8 | 1.40    |  |
| 1800-2000        | 40.0 | 1.40    | 53.3 | 1.52    |  |
| 2450             | 39.2 | 1.80    | 52.7 | 1.95    |  |
| 3000             | 38.5 | 2.40    | 52.0 | 2.73    |  |
| 5800             | 35.3 | 5.27    | 48.2 | 6.00    |  |

 $(\varepsilon_r = \text{relative permittivity}, \sigma = \text{conductivity and } \rho = 1000 \text{ kg/m}^3)$ 



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#### 7.1.3 **Measurement for Tissue Simulate Liquid**

The dielectric properties for this Tissue Simulate Liquids were measured by using the SPEAG DAK3.5 dielectric probe kit in conjunction with Agilent Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

|           | Measurement for Tissue Simulate Liquid |                |        |                |            |                  |        |                 |           |  |  |  |
|-----------|--|----------------|--------|----------------|------------|------------------|--------|-----------------|-----------|--|--|--|
| Tissue    | Measured<br>Frequency                  | mododiod moddo |        | Target Tis     | ssue (±5%) | Devia<br>(Within |        | Liquid<br>Temp. | Test      |  |  |  |
| Туре      | (MHz)                                  | ٤r             | σ(S/m) | ε <sub>r</sub> | σ(S/m)     | ٤r               | σ(S/m) | (℃)             | Date      |  |  |  |
| 835 Head  | 835                                    | 41.930         | 0.907  | 41.50          | 0.90       | 1.04%            | 0.78%  | 22.3            | 2024/6/4  |  |  |  |
| 1750 Head | 1750                                   | 40.394         | 1.317  | 40.10          | 1.37       | 0.73%            | -3.87% | 22.3            | 2024/6/6  |  |  |  |
| 1900 Head | 1900                                   | 40.652         | 1.393  | 40.00          | 1.40       | 1.63%            | -0.50% | 22.1            | 2024/6/12 |  |  |  |
| 1900 Head | 1900                                   | 40.259         | 1.388  | 40.00          | 1.40       | 0.65%            | -0.86% | 22.2            | 2024/6/27 |  |  |  |
| 2300 Head | 2300                                   | 38.702         | 1.694  | 39.50          | 1.67       | -2.02%           | 1.44%  | 22.4            | 2024/6/11 |  |  |  |
| 2450 Head | 2450                                   | 39.842         | 1.806  | 39.20          | 1.80       | 1.64%            | 0.33%  | 22.3            | 2024/6/7  |  |  |  |
| 2600 Head | 2600                                   | 40.207         | 1.951  | 39.00          | 1.96       | 3.09%            | -0.46% | 22.2            | 2024/6/13 |  |  |  |
| 2600 Head | 2600                                   | 37.831         | 2.011  | 39.00          | 1.96       | -3.00%           | 2.60%  | 22.2            | 2024/6/25 |  |  |  |
| 5250 Head | 5250                                   | 36.011         | 4.767  | 35.90          | 4.66       | 0.31%            | 2.30%  | 22.4            | 2024/6/10 |  |  |  |
| 5600 Head | 5600                                   | 35.059         | 5.157  | 35.50          | 5.07       | -1.24%           | 1.72%  | 22.4            | 2024/6/10 |  |  |  |
| 5750 Head | 5750                                   | 34.695         | 5.329  | 35.40          | 5.22       | -1.99%           | 2.09%  | 22.4            | 2024/6/10 |  |  |  |



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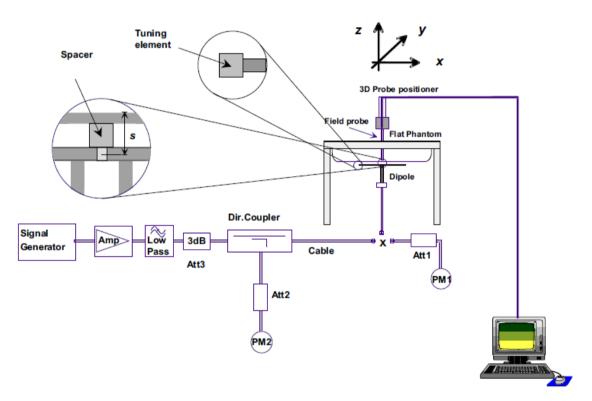
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# 7.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table. During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-4. the microwave circuit arrangement used for SAR system verification



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#### 7.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within  $5\Omega$  from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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## 7.2.2 Summary System Check Result(s)

| SAR System Validation Result(s) |               |   |               |  |  |                                    |   |                            |                             |                 |           |
|---------------------------------|---------------|---|---------------|--|--|------------------------------------|---|----------------------------|-----------------------------|-----------------|-----------|
| Validation Kit                  |               | Measured Measured<br>SAR SAR<br>250mW 250mW |               | Measured<br>SAR<br>(normalized<br>to 1W) | Measured<br>SAR<br>(normalized<br>to 1W) | SAR (normalized (normalized to 1W) |   | Deviation<br>(Within ±10%) |                             | Liquid<br>Temp. | Test Date |
|                                 |               | 1g (W/kg)                                   | 10g<br>(W/kg) | 1g (W/kg)                                | 10g (W/kg)                               | 1-g(W/kg)                          | 10-g(W/kg)  | 1-<br>g(W/kg)              | 10-<br>g(W/kg)              | (℃)             |           |
| D835V2                          | Head          | 2.29  | 1.49          | 9.16                                     | 5.96                                     | 9.53                               | 6.29  | -3.88%                     | -5.25%                      | 22.3            | 2024/6/4  |
| D1750V2                         | Head          | 8.76  | 4.71          | 35.04                                    | 18.84                                    | 36.60                              | 19.30   | -4.26%                     | -2.38%                      | 22.3            | 2024/6/6  |
| D1900V2                         | Head          | 10  | 5.21          | 40.00                                    | 20.84                                    | 39.50                              | 20.60   | 1.27%                      | 1.17%                       | 22.1            | 2024/6/12 |
| D1900V2                         | Head          | 10.3  | 5.51          | 41.20                                    | 22.04                                    | 39.50                              | 20.60   | 4.30%                      | 6.99%                       | 22.2            | 2024/6/27 |
| D2300V2                         | Head          | 12.70                                       | 6.09          | 50.80                                    | 24.36                                    | 48.70                              | 23.30   | 4.31%                      | 4.55%                       | 22.4            | 2024/6/11 |
| D2450V2                         | Head          | 13.80                                       | 6.41          | 55.20                                    | 25.64                                    | 52.20                              | 24.30   | 5.75%                      | 5.51%                       | 22.3            | 2024/6/7  |
| D2600V2                         | Head          | 14.00                                       | 6.38          | 56.00                                    | 25.52                                    | 57.70                              | 25.80   | -2.95%                     | -1.09%                      | 22.2            | 2024/6/13 |
| D2600V2                         | Head          | 15.00                                       | 6.72          | 60.00                                    | 26.88                                    | 57.70                              | 25.80   | 3.99%                      | 4.19%                       | 22.2            | 2024/6/25 |
| Validation Kit                  |               | Measured Measured<br>SAR SAR<br>100mW 100mW |               | Measured<br>SAR<br>(normalized<br>to 1W) | SAR SAR ormalized (normalized            |                                    | Target SAR Target SAR<br>(normalized<br>to 1W) to 1W) |                            | Deviation<br>(Within ±10% ) |                 |           |
|                                 |               | 1g (W/kg)                                   | 10g<br>(W/kg) | 1g (W/kg)                                | 10g (W/kg)                               | 1-g(W/kg)                          | 10-g(W/kg)  | 1-<br>g(W/kg)              | 10-<br>g(W/kg)              | Temp.<br>(℃)    | Test Date |
|                                 | Head(5.25GHz) | 8.47  | 2.40          | 84.70                                    | 24.00                                    | 77.30                              | 22.10   | 9.57%                      | 8.60%                       | 22.4            | 2024/6/8  |
| D5GHzV2                         | Head(5.6GHz)  | 8.83  | 2.51          | 88.30                                    | 25.10                                    | 81.30                              | 23.10   | 8.61%                      | 8.66%                       | 22.4            | 2024/6/8  |
|                                 | Head(5.75GHz) | 7.97  | 2.26          | 79.70                                    | 22.60                                    | 77.10                              | 21.30   | 3.37%                      | 6.10%                       | 22.4            | 2024/6/9  |

### 7.2.3 Detailed System Check Results

Please see the Appendix A



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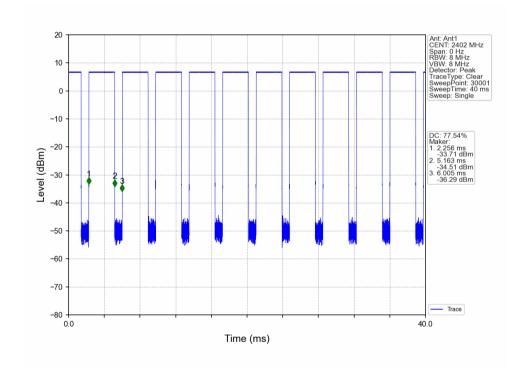
# **Test Configuration**

## **BluetoothTest Configuration**

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.

### 8.1.1 Duty cycle

BT duty cycle: 77.54%





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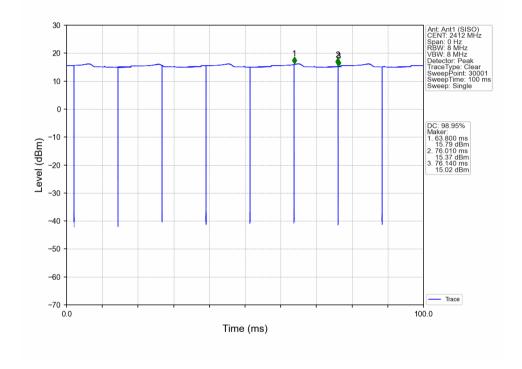
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# 8.2 Wi-Fi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR

#### 8.2.1 Duty cycle

2.4GWLAN duty cycle: 98.95%





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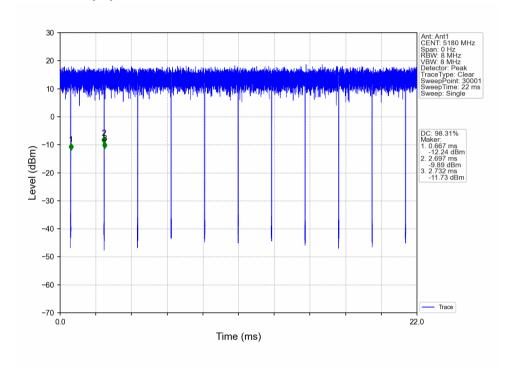


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5GWLAN duty cycle: 98.31%





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#### 8.2.1.1 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) .When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

#### 8.2.1.2 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to reported SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is ≤ 1.2 W/kg or all required channels are tested.

#### 8.2.1.3 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The



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initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
  - SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
  - SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
  - replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
  - replace "initial test configuration" with "all tested higher output power configurations"

#### 8.2.1.4 2.4 GHz Wi-Fi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

#### 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

1) . When the reported SAR of the highest measured maximum output power channel for the exposure



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configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

#### • 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11q/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

#### 8.2.1.5 5 GHz Wi-Fi SAR Procedures

#### U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

#### U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements, when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz



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(5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

#### OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- The largest channel bandwidth configuration is selected among the multiple configurations with the same 1) specified maximum output power.
- If multiple configurations have the same specified maximum output power and largest channel bandwidth, 2) the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
  - The channel closest to mid-band frequency is selected for SAR measurement.
  - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

#### SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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### 8.3 GSM Test Configuration

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. The test power lever is set to "5" and "0" in SAR of GSM850 and GSM1900. The tests in the band of GSM850 and GSM1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power, the higher number time-slot configuration should be tested.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

### 8.4 WCDMA Test Configuration

#### 1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

#### 2) . Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

#### 3) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported bodyworn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.



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#### 4) . HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is ≤ 1/4 dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA.

#### **HSDPA** a)

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(βc, βd), and HS-DPCCH power offset parameters (ΔACK, ΔNACK, ΔCQI) are set according to values indicated in the following table The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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| Sub-<br>test | βc       | Bd       | βd(SF) | βc/βd    | βhs   | CM(dB) | MPR<br>(dB) |
|--------------|----------|----------|--------|----------|-------|--------|-------------|
| 1            | 2/15     | 15/15    | 64     | 2/15     | 4/15  | 0.0    | 0           |
| 2            | 12/15(3) | 15/15(3) | 64     | 12/15(3) | 24/15 | 1.0    | 0           |
| 3            | 15/15    | 8/15     | 64     | 15/8     | 30/15 | 1.5    | 0.5         |
| 4            | 15/15    | 4/15     | 64     | 15/4     | 30/15 | 1.5    | 0.5         |

Note1:  $\triangle$ ACK,  $\triangle$ NACK and  $\triangle$ CQI= 8 Ahs =  $\beta$ hs/ $\beta$ c=30/15  $\beta$ hs=30/15\* $\beta$ c

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\triangle$ ACK and  $\triangle$ NACK= 8 ( Ahs=30/15) with  $\beta$ hs=30/15\* $\beta$ c,and  $\triangle$ CQI=

7 ( Ahs=24/15) with βhs=24/15\*βc.

Note3: CM=1 forβc/βd =12/15, βhs/βc=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

| Parameter                        | Value       |
|----------------------------------|-------------|
| Nominal average inf. bit rate    | 534 kbit/s  |
| Inter-TTI Distance               | 3 TTI"s     |
| Number of HARQ Processes         | 2 Processes |
| Information Bit Payload          | 3202 Bits   |
| MAC-d PDU size                   | 336 Bits    |
| Number Code Blocks               | 1 Block     |
| Binary Channel Bits Per TTI      | 4800 Bits   |
| Total Available SMLs in UE       | 19200 SMLs  |
| Number of SMLs per HARQ Process  | 9600 SMLs   |
| Coding Rate                      | 0.67        |
| Number of Physical Channel Codes | 5           |

Table 2: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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| HS-DSCH<br>Category | Maximum HS-<br>DSCH Codes<br>Received | Minimum<br>Inter-TTI<br>Interval | MaximumH S-DSCH Transport BlockBits/HS-DSCH TTI | Total Soft<br>Channel<br>Bits |
|---------------------|---------------------------------------|----------------------------------|---|-------------------------------|
| 1                   | 5                                     | 3                                | 7298  | 19200                         |
| 2                   | 5                                     | 3                                | 7298  | 28800                         |
| 3                   | 5                                     | 2                                | 7298  | 28800                         |
| 4                   | 5                                     | 2                                | 7298  | 38400                         |
| 5                   | 5                                     | 1                                | 7298  | 57600                         |
| 6                   | 5                                     | 1                                | 7298  | 67200                         |
| 7                   | 10                                    | 1                                | 14411   | 115200                        |
| 8                   | 10                                    | 1                                | 14411   | 134400                        |
| 9                   | 15                                    | 1                                | 25251   | 172800                        |
| 10                  | 15                                    | 1                                | 27952   | 172800                        |
| 11                  | 5                                     | 2                                | 3630  | 14400                         |
| 12                  | 5                                     | 1                                | 3630  | 28800                         |
| 13                  | 15                                    | 1                                | 34800   | 259200                        |
| 14                  | 15                                    | 1                                | 42196   | 259200                        |
| 15                  | 15                                    | 1                                | 23370   | 345600                        |
| 16                  | 15                                    | 1                                | 27952   | 345600                        |

Table 3: HSDPA UE category

#### b) **HSUPA**

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the "WCDMA Handset" and "Release 5 HSUPA Data Device" sections of 3G device.



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| Sub<br>-test∉ | , β <sub>e</sub> ⇔   | βa↔      | βd<br>(SF<br>)ψ | β₀/β₫₽     | β <sub>hs</sub> (1 | β <sub>ec</sub> , | β <sub>ed</sub> ⇔   | β <sub>e</sub> « « (SF )+ | β <sub>ed</sub> ↔<br>(code | CM <sup>(</sup> 2)↔ (dB )↔ | MP<br>R↓<br>(dB)↓ | AG <sup>(4</sup><br>)←<br>Inde<br>x← | E-<br>TFC<br>Io |
|---------------|----------------------|----------|-----------------|------------|--------------------|-------------------|---|---------------------------|----------------------------|----------------------------|-------------------|--------------------------------------|-----------------|
| 1₽            | 11/15 <sup>(3)</sup> | 15/15(3) | 64₽             | 11/15(3)+2 | 22/15₽             | 209/22<br>5+3     | 1039/225₽   | 4€                        | 1₽                         | 1.04                       | 0.0               | 20₽                                  | 75₽             |
| 2₽            | 6/15₽                | 15/15∉   | 64₽             | 6/15₽      | 12/15₽             | 12/15₽            | 94/75₽  | 4₽                        | 1₽                         | 3.0₽                       | 2.0₽              | 12₽                                  | 67₽             |
| 3₽            | 15/15₽               | 9/154    | 64₽             | 15/94      | 30/15₽             | 30/15             | β <sub>ad1</sub> :47/1<br>5 <sub>4</sub><br>β <sub>ed2:47/1</sub><br>5 <sub>4</sub> | 4.                        | 2₽                         | 2.0∉                       | 1.0₽              | 150                                  | 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(4)+3           | 15/15(4) | 64₽             | 15/15(4)47 | 30/15₽             | 24/15₽            | 134/15  | 4₽                        | 1€                         | 1.0∉                       | 0.0₽              | 21                                   | 81∉             |

 $\triangle$  ACK,  $\triangle$  NACK and  $\triangle$  CQI = 8  $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$  $\beta_{hs} = 30/15 * \beta_{cd}$ 

Note 2: 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-

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

Note 4: 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 signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 14/15$  and  $\beta_d = 15/15$ .

Note 5: Testing UE using E-DPDCHPhysical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g+

Note 6: βed can not be set directly; it is set by Absolute Grant Value.

Subtests for WCDMA Release 6 HSUPA Table 4:

| UE E-DCH<br>Category | Maximum E-DCH<br>Codes Transmitted | Number of<br>HARQ<br>Processes | E-DCH<br>TTI(ms) | Minimum<br>Speading<br>Factor | Maximum<br>E-DCH<br>Transport<br>Block Bits | Max<br>Rate<br>(Mbps) |
|----------------------|------------------------------------|--------------------------------|------------------|-------------------------------|---|-----------------------|
| 1                    | 1                                  | 4                              | 10               | 4                             | 7110  | 0.7296                |
| 2                    | 2                                  | 8                              | 2                | 4                             | 2798  | 1.4592                |
| 2                    | 2                                  | 4                              | 10               | 4                             | 14484                                       | 1.4592                |
| 3                    | 2                                  | 4                              | 10               | 4                             | 14484                                       | 1.4592                |
| 4                    | 2                                  | 8                              | 2                | 2                             | 5772  | 2.9185                |
| 4                    | 2                                  | 4                              | 10               | 2                             | 20000                                       | 2.00                  |
| 5                    | 2                                  | 4                              | 10               | 2                             | 20000                                       | 2.00                  |
| 6                    | 4                                  | 8                              | 10               | 2SF2&2SF                      | 11484                                       | 5.76                  |
| (No DPDCH)           | 4                                  | 4                              | 2                | 4                             | 20000                                       | 2.00                  |
| 7                    | 4                                  | 8                              | 2                | 2SF2&2SF                      | 22996                                       | ?                     |
| (No DPDCH)           | 4                                  | 4                              | 10               | 4                             | 20000                                       | ?                     |

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 5: HSUPA UE category



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### 8.5 LTE Test Configuration

Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

#### **TDD LTE test consideration**

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplinkdownlink configurations and Table 4.2-1 for Special subframe configurations. Frame structure type 2:

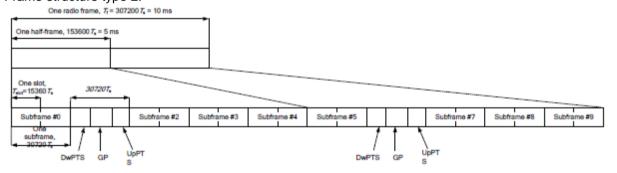


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

|                  | Norm     | nal cyclic prefix in           | downlink                         | Extended cyclic prefix in downlink |                                |  |  |  |
|------------------|----------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|--|--|--|
| Special subframe | DwPTS    | Up                             | PTS                              | DwPTS                              | UpPTS                          |  |  |  |
| configuration    |          | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended<br>cyclic prefix in<br>uplink |  |  |
| 0                | 6592.Ts  |                                |                                  | 7680.Ts                            |                                |  |  |  |
| 1                | 19760.Ts |                                | 2560.Ts                          | 20480.Ts                           | 2192.Ts                        | 2560.Ts                                |  |  |
| 2                | 21952.Ts | 2192.Ts                        |                                  | 23040.Ts                           |                                |  |  |  |
| 3                | 24144.Ts | 2102110                        |                                  | 25600.Ts                           |                                |  |  |  |
| 4                | 26336.Ts |                                |                                  | 7680.Ts                            |                                |  |  |  |
| 5                | 6592.Ts  |                                |                                  | 20480.Ts                           |                                |  |  |  |
| 6                | 19760.Ts |                                |                                  | 23040.Ts                           | 4384.Ts                        | 5120.Ts                                |  |  |
| 7                | 21952.Ts | 4384.Ts                        | 5120.Ts                          | 25600.Ts                           |                                |  |  |  |
| 8                | 24144.Ts |                                | 5.23.10                          | -                                  | -                              | -                                      |  |  |
| 9                | 13168.Ts |                                |                                  | -                                  | -                              | -                                      |  |  |



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Table 4.2-2: Uplink-downlink configurations.

| Uplink-downlink |                                     |   |   |   | Sı | ubframe | e numb | er |   |   |   |
|-----------------|-------------------------------------|---|---|---|----|---------|--------|----|---|---|---|
| configuration   | Uplink Switch-<br>point periodicity | 0 | 1 | 2 | 3  | 4       | 5      | 6  | 7 | 8 | 9 |
| 0               | 5 ms                                | D | S | U | U  | U       | D      | S  | U | U | U |
| 1               | 5 ms                                | D | S | U | U  | D       | D      | S  | U | U | D |
| 2               | 5 ms                                | D | S | U | D  | D       | D      | S  | U | D | D |
| 3               | 10 ms                               | D | S | U | U  | U       | D      | D  | D | D | D |
| 4               | 10 ms                               | D | S | U | U  | D       | D      | D  | D | D | D |
| 5               | 10 ms                               | D | S | J | D  | D       | D      | D  | D | D | D |
| 6               | 5 ms                                | D | S | U | U  | U       | D      | S  | U | U | D |

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U1/10ms

|   | diatou Buty                       | ated buty cycle-[Extended cyclic prefix in uplifix x (13) x # of 5 + # of 6] for its |   |                 |   |   |   |   |   |   |                                 |   |        |
|---|-----------------------------------|--|---|-----------------|---|---|---|---|---|---|---------------------------------|---|--------|
|   | Uplink-<br>Downlink<br>Configurat | Downlink-to-<br>Uplink Switch-<br>point Periodicity                                  |   | Subframe Number |   |   |   |   |   |   | Calculated<br>Duty<br>Cycle (%) |   |        |
|   | ion                               | 1  | 0 | 1               | 2 | 3 | 4 | 5 | 6 | 7 | 8                               | 9 | - ) () |
|   | 0                                 | 5 ms   | D | S               | U | U | U | D | S | U | U                               | U | 63.33  |
|   | 1                                 | 5 ms   | D | S               | U | U | D | D | S | U | U                               | D | 43.33  |
|   | 2                                 | 5 ms   | D | S               | U | D | D | D | S | U | D                               | D | 23.33  |
|   | 3                                 | 10 ms  | D | S               | U | U | U | D | D | D | D                               | D | 31.67  |
|   | 4                                 | 10 ms  | D | S               | U | U | D | D | D | D | D                               | D | 21.67  |
| • | 5                                 | 10 ms  | D | S               | U | D | D | D | D | D | D                               | D | 11.67  |
|   | 6                                 | 5 ms   | D | S               | U | U | U | D | S | U | U                               | D | 53.33  |

#### A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

#### B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 - 6.2.5 under Table 6.2.3-1.

| Modulation | Cha | nnel bandw | idth / Tra | ansmission | bandwidth ( | N <sub>RB</sub> ) | MPR (dB) |
|------------|-----|------------|------------|------------|-------------|-------------------|----------|
|            | 1.4 | 3.0        | 5          | 10         | 15          | 20                |          |
|            | MHz | MHz        | MHz        | MHz        | MHz         | MHz               |          |
| QPSK       | > 5 | > 4        | > 8        | > 12       | > 16        | > 18              | ≤ 1      |
| 16 QAM     | ≤ 5 | ≤ 4        | ≤ 8        | ≤ 12       | ≤ 16        | ≤ 18              | ≤ 1      |
| 16 QAM     | > 5 | > 4        | > 8        | > 12       | > 16        | > 18              | ≤ 2      |

#### C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

#### D) Largest channel bandwidth standalone SAR test requirements



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#### 1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the measured SAR is ≤ 1.0 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the measured SAR of a required test channel is > 1.80 W/kg, SAR is required for all three RB offset configurations for that required test channel.

#### 2) QPSK with 50% RB allocation

For QPSK with 50% RB allocation, SAR is only required measure for the worst case of 1RB allocation used the highest maximum output power.

#### 3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest measured SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 1.0 W/kg. Otherwise, SAR is measured for the highest output power channel and if the measured SAR is > 1.80 W/kg, the remaining required test channels must also be tested.

#### 4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the measured SAR for the QPSK configuration is > 1.80 W/kg.

#### E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the measured SAR of a configuration for the largest channel bandwidth is > 1.80 W/kg.



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## **Measurement RF Conducted Power**

### 9.1 Conducted Power Of Bluebooth

|            | ВТ      | Average        | T                     |         |
|------------|---------|----------------|-----------------------|---------|
| Modulation | Channel | Frequency(MHz) | Conducted Power (dBm) | Tune up |
|            | 0       | 2402           | 7.43                  | 8       |
| GFSK       | 39      | 2441           | 7.81                  | 8       |
|            | 78      | 2480           | 7.32                  | 8       |
|            | 0       | 2402           | 6.15                  | 7       |
| π/4DQPSK   | 39      | 2441           | 6.91                  | 7       |
|            | 78      | 2480           | 6.43                  | 7       |
|            | 0       | 2402           | 6.33                  | 7       |
| 8DPSK      | 39      | 2441           | 6.96                  | 7       |
|            | 78      | 2480           | 6.78                  | 7       |

|            | BLE_1Mbps | Average        |                       |         |
|------------|-----------|----------------|-----------------------|---------|
| Modulation | Channel   | Frequency(MHz) | Conducted Power (dBm) | Tune up |
|            | 0         | 2402           | 3.41                  | 4       |
| GFSK       | 19        | 2440           | 3.91                  | 4       |
|            | 39        | 2480           | 3.52                  | 4       |



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### 9.2 Conducted Power Of 2.4G Wifi

| Mode                 | Channel | Frequency<br>(MHz) | Data Rate(Mbps) | Average Power<br>(dBm)<br>Main Ant | Tune up |
|----------------------|---------|--------------------|-----------------|------------------------------------|---------|
|                      | 1       | 2412               |                 | 12.78                              | 14      |
| 802.11b              | 6       | 2437               | 1               | 13.67                              | 14      |
|                      | 11      | 2462               |                 | 13.83                              | 14      |
|                      | 1       | 2412               |                 | 11.55                              | 13      |
| 802.11g              | 6       | 2437               | 6               | 12.44                              | 13      |
|                      | 11      | 2462               |                 | 12.21                              | 13      |
|                      | 1       | 2412               |                 | 11.41                              | 13      |
| 802.11n HT20<br>SISO | 6       | 2437               | 6.5             | 12.93                              | 13      |
| 3130                 | 11      | 2462               |                 | 12.10                              | 13      |
| 000 44               | 1       | 2412               |                 | 12.85                              | 13      |
| 802.11n HT40<br>SISO | 6       | 2437               | 6.5             | 12.78                              | 13      |
| 5150                 | 11      | 2462               |                 | 12.93                              | 13      |



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### 9.3 Conducted Power Of 5G Wifi

| 5GHz         | mode       | Channel | Frequency(MHz) | Data<br>Rate(Mbps) | Average<br>Power (dBm) | Tune up |
|--------------|------------|---------|----------------|--------------------|------------------------|---------|
|              |            | 36      | 5180           |                    | 12.09                  | 13      |
|              | U-NII-1    | 42      | 5200           |                    | 12.01                  | 13      |
|              |            | 48      | 5240           |                    | 12.14                  | 13      |
|              |            | 52      | 5260           |                    | 13.34                  | 14      |
|              | U-NII-2A   | 60      | 5300           |                    | 13.34                  | 14      |
| 000 445      |            | 64      | 5320           |                    | 13.54                  | 14      |
| 802.11a      |            | 100     | 5500           | 6                  | 12.37                  | 13      |
|              | U-NII-2C   | 116     | 5580           |                    | 12.47                  | 13      |
|              |            | 140     | 5700           |                    | 11.76                  | 13      |
|              |            | 149     | 5745           |                    | 9.83                   | 10.5    |
|              | U-NII-3    | 157     | 5785           |                    | 8.57                   | 10.5    |
|              |            | 165     | 5825           |                    | 8.53                   | 10.5    |
| 5GHz         | mode       | Channel | Frequency(MHz) | Data<br>Rate(Mbps) | Average<br>Power (dBm) | Tune up |
|              |            | 36      | 5180           |                    | 11.08                  | 12      |
|              | U-NII-1    | 42      | 5200           |                    | 11.77                  | 12      |
|              |            | 48      | 5240           |                    | 11.08                  | 12      |
|              | U-NII-2A   | 52      | 5260           |                    | 12.28                  | 13      |
|              |            | 60      | 5300           |                    | 12.22                  | 13      |
| 000 44 LITOO |            | 64      | 5320           | MOCO               | 12.41                  | 13      |
| 802.11n-HT20 |            | 100     | 5500           | MCS0               | 11.61                  | 12      |
|              | U-NII-2C   | 116     | 5580           |                    | 11.77                  | 12      |
|              |            | 140     | 5700           |                    | 11.67                  | 12      |
|              |            | 149     | 5745           |                    | 9.88                   | 10      |
|              | U-NII-3    | 157     | 5785           |                    | 8.45                   | 10      |
|              |            | 165     | 5825           |                    | 8.32                   | 10      |
| 5GHz         | mode       | Channel | Frequency(MHz) | Data<br>Rate(Mbps) | Average<br>Power (dBm) | Tune up |
|              | 11 800 4   | 38      | 5190           |                    | 10.45                  | 11      |
|              | U-NII-1    | 46      | 5230           |                    | 10.94                  | 11      |
| 802.11n-HT40 | LI NIII CA | 54      | 5270           | MCS0               | 10.83                  | 11      |
|              | U-NII-2A   | 62      | 5310           | ]                  | 10.81                  | 11      |
|              | U-NII-2C   | 102     | 5510           |                    | 10.85                  | 11      |



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|                         |  | 110  | 5550   |                       | 10.66   | 11  |
|-------------------------|--|--|--|-----------------------|---|---|
|                         |  | 134  | 5670   |                       | 10.52   | 11  |
|                         | LI NIII O                                  | 151  | 5755   |                       | 9.34  | 10  |
|                         | U-NII-3                                    | 159  | 5795   |                       | 8.94  | 10  |
| 5GHz                    | mode                                       | Channel  | Frequency(MHz)   | Data<br>Rate(Mbps)    | Average<br>Power (dBm)  | Tune up   |
|                         |  | 36   | 5180   |                       | 10.99   | 11  |
|                         | U-NII-1                                    | 42   | 5200   |                       | 10.54   | 11  |
|                         |  | 48   | 5240   |                       | 10.94   | 11  |
|                         |  | 52   | 5260   |                       | 12.19   | 13  |
|                         | U-NII-2A                                   | 60   | 5300   |                       | 12.16   | 13  |
| 802.11ac                |  | 64   | 5320   | MCCO                  | 12.41   | 13  |
| 20M                     |  | 100  | 5500   | MCS0                  | 11.53   | 12  |
|                         | U-NII-2C                                   | 116  | 5580   |                       | 11.73   | 12  |
|                         |  | 140  | 5700   |                       | 11.64   | 12  |
|                         | U-NII-3                                    | 149  | 5745   |                       | 9.90  | 10  |
|                         |  | 157  | 5785   |                       | 8.39  | 10  |
|                         |  | 165  | 5825   |                       | 8.43  | 10  |
| 5GHz                    | mode                                       | Channel  | Frequency(MHz)   | Data<br>Rate(Mbps)    | Average<br>Power (dBm)  | Tune up   |
|                         | U-NII-1                                    | 38   | 5190   |                       | 10.52   | 11  |
|                         | U-INII- I                                  | 46   | 5230   |                       | 10.95   | 4.4   |
|                         |  | 40   |  | _                     |   | 11  |
|                         | LI NIII OA                                 | 54   | 5270   | _                     | 10.09   | 11  |
|                         | U-NII-2A                                   | 1  |  |                       |   |   |
| 802.11ac                | U-NII-2A                                   | 54   | 5270   | MCS0                  | 10.09   | 11  |
| 802.11ac<br>40M         | U-NII-2A<br>U-NII-2C                       | 54<br>62   | 5270<br>5310   | MCS0                  | 10.09<br>10.21  | 11<br>11  |
|                         |  | 54<br>62<br>102  | 5270<br>5310<br>5510   | MCS0                  | 10.09<br>10.21<br>10.88   | 11<br>11<br>11                                    |
|                         | U-NII-2C                                   | 54<br>62<br>102<br>110   | 5270<br>5310<br>5510<br>5550   | MCS0                  | 10.09<br>10.21<br>10.88<br>10.07  | 11<br>11<br>11<br>11                              |
|                         |  | 54<br>62<br>102<br>110<br>134                                      | 5270<br>5310<br>5510<br>5550<br>5670   | MCS0                  | 10.09<br>10.21<br>10.88<br>10.07<br>10.51   | 11<br>11<br>11<br>11<br>11                        |
|                         | U-NII-2C                                   | 54<br>62<br>102<br>110<br>134<br>151                               | 5270<br>5310<br>5510<br>5550<br>5670<br>5755   | MCS0  Data Rate(Mbps) | 10.09<br>10.21<br>10.88<br>10.07<br>10.51<br>9.44   | 11<br>11<br>11<br>11<br>11<br>11                  |
| 40M                     | U-NII-2C<br>U-NII-3                        | 54<br>62<br>102<br>110<br>134<br>151<br>159                        | 5270<br>5310<br>5510<br>5550<br>5670<br>5755<br>5795                                   | Data                  | 10.09<br>10.21<br>10.88<br>10.07<br>10.51<br>9.44<br>9.07<br>Average                                  | 11<br>11<br>11<br>11<br>11<br>10<br>10            |
| 40M<br>5GHz             | U-NII-2C<br>U-NII-3<br>mode                | 54<br>62<br>102<br>110<br>134<br>151<br>159<br>Channel             | 5270<br>5310<br>5510<br>5550<br>5670<br>5755<br>5795<br>Frequency(MHz)                 | Data                  | 10.09<br>10.21<br>10.88<br>10.07<br>10.51<br>9.44<br>9.07<br>Average<br>Power (dBm)                   | 11<br>11<br>11<br>11<br>11<br>10<br>10<br>Tune up |
| 40M<br>5GHz<br>802.11ac | U-NII-2C  U-NII-3  mode  U-NII-1  U-NII-2A | 54<br>62<br>102<br>110<br>134<br>151<br>159<br>Channel             | 5270<br>5310<br>5510<br>5550<br>5670<br>5755<br>5795<br>Frequency(MHz)                 | Data                  | 10.09<br>10.21<br>10.88<br>10.07<br>10.51<br>9.44<br>9.07<br>Average<br>Power (dBm)<br>10.34          | 11<br>11<br>11<br>11<br>11<br>10<br>10<br>Tune up |
| 40M<br>5GHz             | U-NII-2C U-NII-3 mode U-NII-1              | 54<br>62<br>102<br>110<br>134<br>151<br>159<br>Channel<br>42<br>58 | 5270<br>5310<br>5510<br>5550<br>5670<br>5755<br>5795<br>Frequency(MHz)<br>5210<br>5290 | Data<br>Rate(Mbps)    | 10.09<br>10.21<br>10.88<br>10.07<br>10.51<br>9.44<br>9.07<br>Average<br>Power (dBm)<br>10.34<br>10.21 | 11<br>11<br>11<br>11<br>11<br>10<br>10<br>Tune up |



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### 9.4 Conducted Power Of GSM

|             |               |         |       |       | GSM 8                    | 50               |                                 |               |            |          |
|-------------|---------------|---------|-------|-------|--------------------------|------------------|---------------------------------|---------------|------------|----------|
| Burst       | t Output Powe | er(dBm) |       |       | Tung up                  | Division Factors | Frame-Ave                       | rage Output F | Power(dBm) | Tungun   |
| Channel     |               | 128     | 190   | 251   | Tune up                  | DIVISION Factors | 128                             | 190           | 251        | Tune up  |
|             | 1 TX Slot     | 33.24   | 33.54 | 33.58 | 34.00                    | -9.03            | 24.21                           | 24.51         | 24.55      | 24.97    |
| GPRS/EGPRS  | 2 TX Slots    | 30.73   | 31.1  | 30.89 | 31.50                    | -6.02            | 24.71                           | 25.08         | 24.87      | 25.48    |
| (GMSK)      | 3 TX Slots    | 28.94   | 29.41 | 29.09 | 30.00                    | -4.26            | 24.68                           | 25.15         | 24.83      | 25.74    |
|             | 4 TX Slots    | 26.71   | 26.76 | 26.44 | 27.00                    | -3.01            | 23.7                            | 23.75         | 23.43      | 23.99    |
|             | 1 TX Slot     | 25.66   | 26.07 | 25.83 | 26.50                    | -9.03            | 16.63                           | 17.04         | 16.8       | 17.47    |
| EGPRS(8PSK) | 2 TX Slots    | 25.5    | 25.87 | 26.24 | 27.00                    | -6.02            | 19.48                           | 19.85         | 20.22      | 20.98    |
| EGFR3(0F3R) | 3 TX Slots    | 24.31   | 24.58 | 24.43 | 25.00                    | -4.26            | 20.05                           | 20.32         | 20.17      | 20.74    |
|             | 4 TX Slots    | 23.29   | 23.64 | 23.2  | 24.00                    | -3.01            | 20.28                           | 20.63         | 20.19      | 20.99    |
|             |               |         |       |       | GSM 19                   | 000              |                                 |               |            |          |
| Burst       | t Output Powe | er(dBm) |       |       | Tune up Division Factors |                  | Frame-Average Output Power(dBm) |               |            | Tune up  |
| Channel     |               | 512     | 661   | 810   | Turie up                 | DIVISION Factors | 512                             | 661           | 810        | Turie up |
|             | 1 TX Slot     | 26.18   | 27.08 | 27.31 | 28.00                    | -9.03            | 17.15                           | 18.05         | 18.28      | 18.97    |
| GPRS/EGPRS  | 2 TX Slots    | 26.04   | 26.94 | 27.14 | 28.00                    | -6.02            | 20.02                           | 20.92         | 21.12      | 21.98    |
| (GMSK)      | 3 TX Slots    | 25.27   | 26.35 | 26.32 | 27.00                    | -4.26            | 21.01                           | 22.09         | 22.06      | 22.74    |
|             | 4 TX Slots    | 22.48   | 23.01 | 23.25 | 24.00                    | -3.01            | 19.47                           | 20            | 20.24      | 20.99    |
|             | 1 TX Slot     | 23.05   | 22.93 | 23.27 | 24.00                    | -9.03            | 14.02                           | 13.9          | 14.24      | 14.97    |
| EGPRS(8PSK) | 2 TX Slots    | 21.85   | 21.98 | 21.09 | 22.00                    | -6.02            | 15.83                           | 15.96         | 15.07      | 15.98    |
| LGFN3(0F3N) | 3 TX Slots    | 19.83   | 19.64 | 19.83 | 20.00                    | -4.26            | 15.57                           | 15.38         | 15.57      | 15.74    |
|             | 4 TX Slots    | 18.8    | 18.57 | 18.77 | 19.00                    | -3.01            | 15.79                           | 15.56         | 15.76      | 15.99    |



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### 9.5 Conducted Power Of WCDMA

|       | WCD          | MA Band II      |       |       |         |
|-------|--------------|-----------------|-------|-------|---------|
|       | Average Cond | ducted Power(dl | 3m)   |       |         |
|       | Channel      | 9262            | 9400  | 9538  | Tune up |
| WCDMA | 12.2kbps RMC | 23.69           | 23.77 | 23.65 | 24.00   |
|       | Subtest 1    | 22.39           | 22.08 | 22.06 | 23.00   |
| HSDPA | Subtest 2    | 22.36           | 22.09 | 22.10 | 23.00   |
| ПЭДРА | Subtest 3    | 22.34           | 22.10 | 22.03 | 23.00   |
|       | Subtest 4    | 22.43           | 22.13 | 22.14 | 23.00   |
|       | Subtest 1    | 20.93           | 21.04 | 20.74 | 22.00   |
|       | Subtest 2    | 21.61           | 20.16 | 20.22 | 22.00   |
| HSUPA | Subtest 3    | 21.34           | 21.18 | 21.11 | 22.00   |
|       | Subtest 4    | 20.07           | 20.99 | 21.07 | 22.00   |
|       | Subtest 5    | 21.62           | 21.22 | 21.09 | 22.00   |

|       | WCD                          | MA Band V |       |       |         |  |  |  |  |  |  |  |  |
|-------|------------------------------|-----------|-------|-------|---------|--|--|--|--|--|--|--|--|
|       | Average Conducted Power(dBm) |           |       |       |         |  |  |  |  |  |  |  |  |
|       | Channel                      | 4132      | 4182  | 4233  | Tune up |  |  |  |  |  |  |  |  |
| WCDMA | 12.2kbps RMC                 | 23.17     | 23.19 | 23.16 | 24.00   |  |  |  |  |  |  |  |  |
|       | Subtest 1                    | 21.90     | 21.84 | 21.78 | 23.00   |  |  |  |  |  |  |  |  |
| HSDPA | Subtest 2                    | 21.88     | 21.86 | 21.80 | 23.00   |  |  |  |  |  |  |  |  |
| ПЭДРА | Subtest 3                    | 21.87     | 21.84 | 21.80 | 23.00   |  |  |  |  |  |  |  |  |
|       | Subtest 4                    | 21.92     | 21.89 | 21.85 | 23.00   |  |  |  |  |  |  |  |  |
|       | Subtest 1                    | 19.72     | 19.48 | 19.49 | 20.00   |  |  |  |  |  |  |  |  |
|       | Subtest 2                    | 19.94     | 19.93 | 19.70 | 20.00   |  |  |  |  |  |  |  |  |
| HSUPA | Subtest 3                    | 19.71     | 19.85 | 19.92 | 20.00   |  |  |  |  |  |  |  |  |
|       | Subtest 4                    | 19.94     | 19.97 | 19.76 | 20.00   |  |  |  |  |  |  |  |  |
|       | Subtest 5                    | 19.92     | 19.66 | 19.93 | 20.00   |  |  |  |  |  |  |  |  |



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### 9.6 Conducted Power Of LTE

|              | LTE Band 2   |         |           |         | Conduc  | ted Power(dBm) |         |       |
|--------------|--------------|---------|-----------|---------|---------|----------------|---------|-------|
| Dam dood dab | Madulation   | DD ains | DD -#+    | Channel | Channel | Channel        | T       |       |
| Bandwidth    | Modulation   | RB size | RB offset | 18607   | 18900   | 19193          | Tune up |       |
|              |              | 1       | 0         | 23.05   | 23.15   | 23             | 24.00   |       |
|              |              | 1       | 2         | 23.12   | 23.09   | 23.05          | 24.00   |       |
|              |              | 1       | 5         | 23.02   | 23.2    | 23.02          | 24.00   |       |
|              | QPSK         | 3       | 0         | 22.85   | 23.16   | 23.37          | 24.00   |       |
|              |              | 3       | 2         | 23.25   | 23.12   | 23.11          | 24.00   |       |
|              |              | 3       | 3         | 22.96   | 23.08   | 23.29          | 24.00   |       |
| 4 45411-     |              | 6       | 0         | 22.01   | 22.1    | 22.22          | 23.00   |       |
| 1.4MHz       |              | 1       | 0         | 22.18   | 22.18   | 22.8           | 23.00   |       |
|              |              | 1       | 2         | 22.21   | 22.34   | 22.84          | 23.00   |       |
|              |              | 1       | 5         | 22.23   | 22.24   | 22.78          | 23.00   |       |
|              | 16QAM        | 3       | 0         | 22.11   | 22.17   | 22.6           | 23.00   |       |
|              |              | 3       | 2         | 22.17   | 22.31   | 22.61          | 23.00   |       |
|              |              | 3       | 3         | 22.14   | 22.28   | 22.59          | 23.00   |       |
|              |              | 6       | 0         | 21.22   | 21.03   | 21.38          | 22.00   |       |
|              | NA - ded - C |         |           | Channel | Channel | Channel        | _       |       |
| Bandwidth    | Modulation   | RB size | RB offset | 18615   | 18900   | 19185          | Tune up |       |
|              |              |         | 1         | 0       | 23.09   | 23.09          | 22.96   | 24.00 |
|              |              | 1       | 7         | 23.22   | 23.44   | 22.99          | 24.00   |       |
|              |              | 1       | 14        | 22.93   | 23.09   | 23             | 24.00   |       |
|              | QPSK         | 8       | 0         | 22.12   | 22.09   | 22.02          | 23.00   |       |
|              |              | 8       | 4         | 22.12   | 22.12   | 22.12          | 23.00   |       |
|              |              | 8       | 7         | 22.13   | 22.09   | 22.12          | 23.00   |       |
| 08411-       |              | 15      | 0         | 22.1    | 22.17   | 22.24          | 23.00   |       |
| 3MHz         |              | 1       | 0         | 22.62   | 22.31   | 22.38          | 23.00   |       |
|              |              | 1       | 7         | 22.54   | 22.2    | 22.53          | 23.00   |       |
|              |              | 1       | 14        | 22.46   | 22.42   | 22.49          | 23.00   |       |
|              | 16QAM        | 8       | 0         | 21.5    | 21.17   | 21.26          | 22.00   |       |
|              |              | 8       | 4         | 21.17   | 21.16   | 21.41          | 22.00   |       |
|              |              | 8       | 7         | 21.23   | 21.15   | 21.4           | 22.00   |       |
|              |              | 15      | 0         | 21.08   | 21.06   | 21.14          | 22.00   |       |
| Bandwidth    | Modulation   | RB size | RB offset | Channel | Channel | Channel        | Tungun  |       |
| Danawiath    | iviodulation | RD SIZE | RB oliset | 18625   | 18900   | 19175          | Tune up |       |
|              |              | 1       | 0         | 22.92   | 22.84   | 22.7           | 24.00   |       |
|              |              | 1       | 13        | 22.99   | 22.93   | 23             | 24.00   |       |
|              |              | 1       | 24        | 22.93   | 22.98   | 23.04          | 24.00   |       |
| 5MHz         | QPSK         | 12      | 0         | 21.99   | 22.17   | 22.05          | 23.00   |       |
|              |              | 12      | 6         | 22.23   | 22.22   | 22.09          | 23.00   |       |
|              |              | 12      | 13        | 22.15   | 22.33   | 22.16          | 23.00   |       |
|              |              | 25      | 0         | 22.12   | 22.2    | 22.08          | 23.00   |       |



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|                    | I           | 1 1  | 0  | 21.33   | 22.64  | 21.95   | 23.00  |
|--------------------|-------------|--|--|---|--|---|--|
|                    |             | 1  | 13   | 21.74   | 22.76  | 22.29   | 23.00  |
|                    |             | 1  | 24   | 21.56   | 22.64  | 22.28   | 23.00  |
|                    | 16QAM       | 12   | 0  | 21.14   | 20.87  | 20.94   | 22.00  |
|                    |             | 12   | 6  | 21.2  | 21.08  | 21.21   | 22.00  |
|                    |             | 12   | 13   | 21.21   | 21.24  | 21.1  | 22.00  |
|                    |             | 25   | 0  | 21.03   | 21.23  | 21.21   | 22.00  |
| Danish data        | Mandalatian | DD -:  | DD - (( )  | Channel   | Channel  | Channel   | T  |
| Bandwidth          | Modulation  | RB size  | RB offset  | 18650   | 18900  | 19150   | Tune up  |
|                    |             | 1  | 0  | 23.17   | 23.22  | 22.77   | 24.00  |
|                    |             | 1  | 25   | 23.18   | 22.94  | 23.16   | 24.00  |
|                    |             | 1  | 49   | 23.08   | 22.96  | 23.23   | 24.00  |
|                    | QPSK        | 25   | 0  | 22.21   | 22.21  | 21.83   | 23.00  |
|                    |             | 25   | 13   | 22.21   | 22.26  | 22.02   | 23.00  |
|                    |             | 25   | 25   | 22.18   | 22.19  | 22.11   | 23.00  |
| 10MHz              |             | 50   | 0  | 22.16   | 22.2   | 22  | 23.00  |
| IUIVINZ            |             | 1  | 0  | 22.56   | 22.93  | 21.75   | 23.00  |
|                    |             | 1  | 25   | 22.29   | 22.6   | 21.94   | 23.00  |
|                    |             | 1  | 49   | 22.6  | 22.47  | 22.32   | 23.00  |
|                    | 16QAM       | 25   | 0  | 21.26   | 21.12  | 20.78   | 22.00  |
|                    |             | 25   | 13   | 21.27   | 21.35  | 21.14   | 22.00  |
|                    |             | 25   | 25   | 21.28   | 21.26  | 21.23   | 22.00  |
|                    |             | 50   | 0  | 21.03   | 21.2   | 20.9  | 22.00  |
| Bandwidth          | Modulation  | RB size  | RB offset  | Channel   | Channel  | Channel   | Tune up  |
| Banawiani          | Woddiation  | ND SIZE  | RB oliset  | 18675   | 18900  | 19125   | rune up  |
|                    |             | 1  | 0  | 23.12   | 22.85  | 22.65   | 24.00  |
|                    |             | 1  | 38   | 23.18   | 23.2   | 22.69   | 24.00  |
|                    |             | 1  | 74   | 23.15   | 23.03  | 23.07   | 24.00  |
|                    | QPSK        | 36   |  |   |  |   |  |
|                    | QPSK        | 30   | 0  | 22.21   | 22.28  | 21.74   | 23.00  |
|                    | Q. 3.1      | 36   | 18   | 22.21<br>22.18  | 22.28<br>22.27   | 21.74<br>21.84  | 23.00<br>23.00   |
|                    | Q. 5. t     |  | _  |   |  |   |  |
| 15MU-              | 2. 3.       | 36   | 18   | 22.18   | 22.27  | 21.84   | 23.00  |
| 15MHz              | 2. 3.       | 36<br>36   | 18<br>39   | 22.18<br>22.2   | 22.27<br>22.24   | 21.84<br>21.9   | 23.00<br>23.00   |
| 15MHz              | 2. 3.       | 36<br>36<br>75   | 18<br>39<br>0  | 22.18<br>22.2<br>22.22  | 22.27<br>22.24<br>22.21  | 21.84<br>21.9<br>21.8   | 23.00<br>23.00<br>23.00  |
| 15MHz              | 2. 3.       | 36<br>36<br>75<br>1  | 18<br>39<br>0  | 22.18<br>22.2<br>22.22<br>22.61   | 22.27<br>22.24<br>22.21<br>22.48   | 21.84<br>21.9<br>21.8<br>22.43  | 23.00<br>23.00<br>23.00<br>23.00   |
| 15MHz              | 16QAM       | 36<br>36<br>75<br>1  | 18<br>39<br>0<br>0<br>38                             | 22.18<br>22.2<br>22.22<br>22.61<br>22.71  | 22.27<br>22.24<br>22.21<br>22.48<br>22.64  | 21.84<br>21.9<br>21.8<br>22.43<br>22.28   | 23.00<br>23.00<br>23.00<br>23.00<br>23.00  |
| 15MHz              |             | 36<br>36<br>75<br>1<br>1   | 18<br>39<br>0<br>0<br>38<br>74                       | 22.18<br>22.2<br>22.22<br>22.61<br>22.71<br>22.38                                     | 22.27<br>22.24<br>22.21<br>22.48<br>22.64<br>22.59   | 21.84<br>21.9<br>21.8<br>22.43<br>22.28<br>22.49                                    | 23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>23.00                                     |
| 15MHz              |             | 36<br>36<br>75<br>1<br>1<br>1<br>36                              | 18<br>39<br>0<br>0<br>38<br>74                       | 22.18<br>22.2<br>22.22<br>22.61<br>22.71<br>22.38<br>21.29                            | 22.27<br>22.24<br>22.21<br>22.48<br>22.64<br>22.59<br>20.99                                      | 21.84<br>21.9<br>21.8<br>22.43<br>22.28<br>22.49<br>20.69                           | 23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>22.00                   |
| 15MHz              |             | 36<br>36<br>75<br>1<br>1<br>1<br>36<br>36                        | 18<br>39<br>0<br>0<br>38<br>74<br>0                  | 22.18<br>22.2<br>22.22<br>22.61<br>22.71<br>22.38<br>21.29<br>21.26                   | 22.27<br>22.24<br>22.21<br>22.48<br>22.64<br>22.59<br>20.99<br>21.3                              | 21.84<br>21.9<br>21.8<br>22.43<br>22.28<br>22.49<br>20.69<br>20.83                  | 23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>22.00                            |
|                    | 16QAM       | 36<br>36<br>75<br>1<br>1<br>1<br>36<br>36<br>36<br>75            | 18<br>39<br>0<br>0<br>38<br>74<br>0<br>18<br>39      | 22.18<br>22.2<br>22.22<br>22.61<br>22.71<br>22.38<br>21.29<br>21.26<br>21.12          | 22.27<br>22.24<br>22.21<br>22.48<br>22.64<br>22.59<br>20.99<br>21.3<br>21.15                     | 21.84<br>21.9<br>21.8<br>22.43<br>22.28<br>22.49<br>20.69<br>20.83<br>20.9          | 23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>22.00<br>22.00<br>22.00<br>22.00 |
| 15MHz<br>Bandwidth |             | 36<br>36<br>75<br>1<br>1<br>1<br>36<br>36<br>36                  | 18<br>39<br>0<br>0<br>38<br>74<br>0<br>18<br>39      | 22.18<br>22.2<br>22.22<br>22.61<br>22.71<br>22.38<br>21.29<br>21.26<br>21.12<br>21.32 | 22.27<br>22.24<br>22.21<br>22.48<br>22.64<br>22.59<br>20.99<br>21.3<br>21.15<br>21.18            | 21.84<br>21.9<br>21.8<br>22.43<br>22.28<br>22.49<br>20.69<br>20.83<br>20.9<br>20.76 | 23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>22.00<br>22.00<br>22.00          |
|                    | 16QAM       | 36<br>36<br>75<br>1<br>1<br>1<br>36<br>36<br>36<br>75            | 18<br>39<br>0<br>0<br>38<br>74<br>0<br>18<br>39      | 22.18 22.2 22.22 22.61 22.71 22.38 21.29 21.26 21.12 21.32 Channel                    | 22.27<br>22.24<br>22.21<br>22.48<br>22.64<br>22.59<br>20.99<br>21.3<br>21.15<br>21.18<br>Channel | 21.84 21.9 21.8 22.43 22.28 22.49 20.69 20.83 20.9 20.76 Channel                    | 23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>23.00<br>22.00<br>22.00<br>22.00<br>22.00 |
|                    | 16QAM       | 36<br>36<br>75<br>1<br>1<br>1<br>36<br>36<br>36<br>75<br>RB size | 18<br>39<br>0<br>0<br>38<br>74<br>0<br>18<br>39<br>0 | 22.18 22.2 22.22 22.61 22.71 22.38 21.29 21.26 21.12 21.32 Channel 18700              | 22.27<br>22.24<br>22.21<br>22.48<br>22.64<br>22.59<br>20.99<br>21.3<br>21.15<br>21.18<br>Channel | 21.84 21.9 21.8 22.43 22.28 22.49 20.69 20.83 20.9 20.76 Channel 19100              | 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 Tune up                          |



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|  |       | 50  | 0  | 22.43 | 22.54 | 22.51 | 23.00 |
|--|-------|-----|----|-------|-------|-------|-------|
|  |       | 50  | 25 | 22.36 | 22.44 | 22.44 | 23.00 |
|  |       | 50  | 50 | 22.39 | 22.32 | 22.35 | 23.00 |
|  |       | 100 | 0  | 22.43 | 22.56 | 22.46 | 23.00 |
|  |       | 1   | 0  | 22.47 | 22.35 | 22.65 | 23.00 |
|  |       | 1   | 50 | 22.09 | 22.24 | 22.36 | 23.00 |
|  | 16QAM | 1   | 99 | 22.64 | 22.06 | 22.15 | 23.00 |
|  |       | 50  | 0  | 21.13 | 21.21 | 21.21 | 22.00 |
|  |       | 50  | 25 | 21.29 | 21.26 | 21.16 | 22.00 |
|  |       | 50  | 50 | 21.22 | 21.2  | 21.3  | 22.00 |
|  |       | 100 | 0  | 21.25 | 21.23 | 21.39 | 22.00 |

|           | LTE Band 4 |         |           | Conducted Power(dBm) |         |         |         |  |
|-----------|------------|---------|-----------|----------------------|---------|---------|---------|--|
| Bandwidth | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tungun  |  |
| Bandwidth | Modulation | RB SIZE | RB offset | 19957                | 20175   | 20393   | Tune up |  |
|           |            | 1       | 0         | 23.11                | 23.19   | 23.01   | 23.50   |  |
|           |            | 1       | 2         | 23.22                | 23.18   | 22.92   | 23.50   |  |
|           |            | 1       | 5         | 22.98                | 23.04   | 22.85   | 23.50   |  |
|           | QPSK       | 3       | 0         | 22.93                | 22.93   | 22.87   | 23.50   |  |
|           |            | 3       | 2         | 22.88                | 23.08   | 22.95   | 23.50   |  |
|           |            | 3       | 3         | 22.94                | 22.88   | 22.84   | 23.50   |  |
| 1.4MHz    |            | 6       | 0         | 21.84                | 22.10   | 21.99   | 22.50   |  |
| 1.411172  | 1.4MHZ     | 1       | 0         | 22.09                | 21.95   | 22.13   | 22.50   |  |
|           |            | 1       | 2         | 22.10                | 21.99   | 22.28   | 22.50   |  |
|           |            | 1       | 5         | 21.99                | 21.92   | 22.00   | 22.50   |  |
|           | 16QAM      | 3       | 0         | 21.77                | 22.14   | 21.80   | 22.50   |  |
|           |            | 3       | 2         | 21.82                | 22.26   | 22.06   | 22.50   |  |
|           |            | 3       | 3         | 21.79                | 22.06   | 22.00   | 22.00   |  |
|           |            | 6       | 0         | 20.77                | 20.84   | 20.84   | 21.00   |  |
| Bandwidth | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tungun  |  |
| Danawiath | Modulation |         | RB oliset | 19965                | 20175   | 20385   | Tune up |  |
|           |            | 1       | 0         | 22.99                | 23.16   | 22.58   | 23.50   |  |
|           |            | 1       | 7         | 22.93                | 23.24   | 22.87   | 23.50   |  |
|           |            | 1       | 14        | 22.88                | 23.02   | 22.77   | 23.50   |  |
|           | QPSK       | 8       | 0         | 22.08                | 22.19   | 21.80   | 22.50   |  |
|           |            | 8       | 4         | 21.94                | 22.22   | 21.89   | 22.50   |  |
|           |            | 8       | 7         | 22.10                | 22.10   | 21.81   | 22.50   |  |
| 3MHz      |            | 15      | 0         | 22.11                | 22.24   | 21.81   | 22.50   |  |
| SIVITZ    |            | 1       | 0         | 22.65                | 22.15   | 22.34   | 22.50   |  |
|           |            | 1       | 7         | 22.78                | 22.41   | 22.70   | 22.50   |  |
|           |            | 1       | 14        | 22.59                | 21.90   | 22.24   | 22.50   |  |
|           | 16QAM      | 8       | 0         | 21.16                | 21.11   | 20.98   | 22.50   |  |
|           |            | 8       | 4         | 21.12                | 20.96   | 20.71   | 22.50   |  |
|           |            | 8       | 7         | 21.22                | 21.35   | 20.73   | 22.00   |  |
|           |            | 15      | 0         | 20.93                | 21.36   | 20.53   | 22.00   |  |



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| Donalisiidth | Modulation   | DD size | DD offeet | Channel | Channel | Channel | Tungun  |
|--------------|--------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth    | Modulation   | RB size | RB offset | 19975   | 20175   | 20375   | Tune up |
|              |              | 1       | 0         | 22.67   | 22.79   | 22.55   | 23.50   |
|              |              | 1       | 13        | 22.72   | 23.03   | 22.69   | 23.50   |
|              |              | 1       | 24        | 22.83   | 22.65   | 22.60   | 23.50   |
|              | QPSK         | 12      | 0         | 21.80   | 22.24   | 21.79   | 22.50   |
|              |              | 12      | 6         | 22.01   | 22.15   | 21.83   | 22.50   |
|              |              | 12      | 13        | 21.94   | 22.09   | 21.91   | 22.50   |
| 5MHz         |              | 25      | 0         | 21.84   | 22.15   | 21.86   | 22.50   |
| JIVITIZ      |              | 1       | 0         | 21.46   | 21.95   | 22.26   | 22.50   |
|              |              | 1       | 13        | 21.63   | 22.19   | 22.53   | 22.50   |
|              |              | 1       | 24        | 21.45   | 21.82   | 22.42   | 22.50   |
|              | 16QAM        | 12      | 0         | 20.86   | 21.29   | 20.73   | 22.50   |
|              |              | 12      | 6         | 20.97   | 21.42   | 20.81   | 22.50   |
|              |              | 12      | 13        | 21.00   | 20.99   | 20.87   | 22.00   |
|              |              | 25      | 0         | 20.83   | 21.28   | 20.90   | 22.00   |
| Bandwidth    | Modulation   | RB size | RB offset | Channel | Channel | Channel | Tuna un |
| bandwidth    | iviodulation | RD SIZE | RD Ollset | 20000   | 20175   | 20350   | Tune up |
|              |              | 1       | 0         | 22.90   | 23.20   | 22.70   | 23.50   |
|              |              | 1       | 25        | 23.08   | 23.33   | 23.29   | 23.50   |
|              | QPSK         | 1       | 49        | 22.89   | 22.75   | 22.89   | 23.50   |
|              |              | 25      | 0         | 21.93   | 22.18   | 21.87   | 22.50   |
|              |              | 25      | 13        | 22.06   | 22.03   | 21.92   | 22.50   |
|              |              | 25      | 25        | 21.95   | 22.03   | 21.86   | 22.50   |
| 408411-      |              | 50      | 0         | 21.99   | 22.15   | 21.78   | 22.50   |
| 10MHz        |              | 1       | 0         | 22.34   | 22.31   | 21.94   | 22.50   |
|              |              | 1       | 25        | 22.24   | 22.24   | 22.08   | 22.50   |
|              |              | 1       | 49        | 22.46   | 21.76   | 22.31   | 22.50   |
|              | 16QAM        | 25      | 0         | 20.89   | 21.52   | 20.97   | 22.50   |
|              |              | 25      | 13        | 21.14   | 21.38   | 20.99   | 22.50   |
|              |              | 25      | 25        | 20.93   | 21.12   | 21.01   | 22.00   |
|              |              | 50      | 0         | 20.95   | 21.19   | 20.85   | 22.00   |
| Dan duri dah | Madulation   | DD size | DD -#+    | Channel | Channel | Channel | T       |
| Bandwidth    | Modulation   | RB size | RB offset | 20025   | 20175   | 20325   | Tune up |
|              |              | 1       | 0         | 22.83   | 23.06   | 22.12   | 23.50   |
|              |              | 1       | 38        | 22.96   | 22.93   | 22.80   | 23.50   |
|              |              | 1       | 74        | 23.13   | 22.19   | 22.79   | 23.50   |
|              | QPSK         | 36      | 0         | 22.02   | 22.06   | 21.87   | 22.50   |
|              |              | 36      | 18        | 21.97   | 22.14   | 21.82   | 22.50   |
|              |              | 36      | 39        | 22.12   | 22.04   | 21.65   | 22.50   |
| 15MHz        |              | 75      | 0         | 22.00   | 22.04   | 21.76   | 22.50   |
|              |              | 1       | 0         | 22.34   | 22.49   | 21.53   | 22.50   |
|              |              | 1       | 38        | 22.46   | 22.19   | 22.42   | 22.50   |
|              | 400444       | 1       | 74        | 22.74   | 21.48   | 22.04   | 22.50   |
|              | 16QAM        | 36      | 0         | 20.92   | 21.11   | 20.78   | 22.50   |
|              |              | 36      | 18        | 21.06   | 21.13   | 20.84   | 22.50   |
|              |              | 36      | 39        | 21.09   | 20.86   | 20.80   | 22.00   |



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|           |              | 75      | 0         | 21.08   | 21.15   | 20.88   | 22.00   |
|-----------|--------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation   | RB size | RB offset | Channel | Channel | Channel | Tuna un |
| Danawiath | iviodulation | RD SIZE | KD Ollset | 20050   | 20175   | 20300   | Tune up |
|           |              | 1       | 0         | 22.7    | 22.97   | 22.32   | 23.50   |
|           |              | 1       | 50        | 23.12   | 23.13   | 22.99   | 23.50   |
|           |              | 1       | 99        | 22.88   | 22.17   | 22.78   | 23.50   |
|           | QPSK         | 50      | 0         | 21.99   | 22.21   | 22.04   | 22.50   |
|           |              | 50      | 25        | 21.98   | 22.06   | 21.78   | 22.50   |
|           |              | 50      | 50        | 21.86   | 22.19   | 21.72   | 22.50   |
| 20MHz     |              | 100     | 0         | 21.99   | 22.04   | 21.89   | 22.50   |
| ZUWITZ    |              | 1       | 0         | 21.78   | 22.01   | 21.54   | 22.50   |
|           |              | 1       | 50        | 22.15   | 22.19   | 21.85   | 22.50   |
|           |              | 1       | 99        | 22.10   | 22.01   | 21.96   | 22.50   |
|           | 16QAM        | 50      | 0         | 21.06   | 21.14   | 21.04   | 22.50   |
|           |              | 50      | 25        | 21.12   | 21.14   | 20.89   | 22.50   |
|           |              | 50      | 50        | 21.29   | 20.81   | 20.80   | 22.00   |
|           |              | 100     | 0         | 21.08   | 21.06   | 20.93   | 22.00   |

|              | LTE Band 5   |         |           | Conducted Power(dBm) |         |         |         |  |
|--------------|--------------|---------|-----------|----------------------|---------|---------|---------|--|
| Danish dalah | NA - ded - C | DD -:   | DD - #    | Channel              | Channel | Channel | T       |  |
| Bandwidth    | Modulation   | RB size | RB offset | 20407                | 20525   | 20643   | Tune up |  |
|              |              | 1       | 0         | 22.34                | 22.64   | 22.64   | 23.50   |  |
|              |              | 1       | 2         | 22.76                | 22.61   | 22.71   | 23.50   |  |
|              |              | 1       | 5         | 22.50                | 22.62   | 22.68   | 23.50   |  |
|              | QPSK         | 3       | 0         | 22.46                | 22.79   | 22.64   | 22.50   |  |
|              |              | 3       | 2         | 22.69                | 22.52   | 22.65   | 22.50   |  |
|              |              | 3       | 3         | 22.79                | 22.63   | 22.58   | 22.50   |  |
| 1.4MHz       |              | 6       | 0         | 21.74                | 21.73   | 21.66   | 22.50   |  |
| 1.4MHZ       |              | 1       | 0         | 21.68                | 22.37   | 21.95   | 22.50   |  |
|              |              | 1       | 2         | 21.55                | 22.32   | 21.93   | 22.50   |  |
|              |              | 1       | 5         | 21.35                | 22.37   | 21.78   | 22.50   |  |
|              | 16QAM        | 3       | 0         | 21.92                | 22.00   | 21.65   | 22.50   |  |
|              |              | 3       | 2         | 21.85                | 21.69   | 21.77   | 22.50   |  |
|              |              | 3       | 3         | 21.72                | 21.65   | 21.72   | 22.00   |  |
|              |              | 6       | 0         | 20.49                | 20.70   | 20.51   | 22.00   |  |
| Bandwidth    | Modulation   | RB size | RB offset | Channel              | Channel | Channel | Tune up |  |
| Danuwium     | Modulation   | ND SIZE | KD Ollset | 20415                | 20525   | 20635   | rune up |  |
|              |              | 1       | 0         | 22.49                | 22.59   | 22.47   | 23.50   |  |
|              |              | 1       | 7         | 22.72                | 22.74   | 22.65   | 23.50   |  |
|              |              | 1       | 14        | 22.55                | 22.70   | 22.54   | 23.50   |  |
|              | QPSK         | 8       | 0         | 21.69                | 21.75   | 21.57   | 22.50   |  |
| 3MHz         |              | 8       | 4         | 21.78                | 21.64   | 21.68   | 22.50   |  |
|              |              | 8       | 7         | 21.77                | 21.68   | 21.63   | 22.50   |  |
|              |              | 15      | 0         | 21.89                | 21.75   | 21.53   | 22.50   |  |
|              | 16QAM        | 1       | 0         | 21.98                | 21.76   | 21.98   | 22.50   |  |
|              | TOQAW        | 1       | 7         | 22.25                | 21.50   | 22.27   | 22.50   |  |



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|                 |            | 1       | 14        | 21.92   | 21.56   | 22.02   | 22.50                            |
|-----------------|------------|---------|-----------|---------|---------|---------|----------------------------------|
|                 |            | 8       | 0         | 20.86   | 20.70   | 20.50   | 22.50                            |
|                 |            | 8       | 4         | 20.88   | 20.69   | 20.61   | 22.50                            |
|                 |            | 8       | 7         | 21.17   | 20.73   | 20.57   | 22.00                            |
|                 |            | 15      | 0         | 20.81   | 20.72   | 20.53   | 22.00                            |
| D 1 1 1 1 1 1 1 |            |         | DD " .    | Channel | Channel | Channel | -                                |
| Bandwidth       | Modulation | RB size | RB offset | 20425   | 20525   | 20625   | Tune up                          |
|                 |            | 1       | 0         | 22.25   | 22.34   | 22.27   | 23.50                            |
|                 |            | 1       | 13        | 22.41   | 22.58   | 22.56   | 23.50                            |
|                 |            | 1       | 24        | 22.56   | 22.45   | 22.29   | 23.50                            |
|                 | QPSK       | 12      | 0         | 21.76   | 21.71   | 21.68   | 22.50                            |
|                 |            | 12      | 6         | 21.72   | 21.69   | 21.62   | 22.50                            |
|                 |            | 12      | 13        | 21.72   | 21.69   | 21.70   | 22.50                            |
| F8811-          |            | 25      | 0         | 21.70   | 21.70   | 21.61   | 22.50                            |
| 5MHz            |            | 1       | 0         | 20.75   | 21.55   | 22.07   | 22.50                            |
|                 |            | 1       | 13        | 20.81   | 21.54   | 22.38   | 22.50                            |
|                 |            | 1       | 24        | 21.10   | 21.57   | 22.07   | 22.50                            |
|                 | 16QAM      | 12      | 0         | 20.80   | 20.77   | 20.60   | 22.50                            |
|                 |            | 12      | 6         | 20.75   | 20.85   | 20.59   | 22.50                            |
|                 |            | 12      | 13        | 20.66   | 20.58   | 20.57   | 22.50<br>22.50<br>22.50<br>22.50 |
|                 |            | 25      | 0         | 20.88   | 20.74   | 20.62   | 22.00                            |
| 5 1 1 1         |            |         | DD - #    | Channel | Channel | Channel | _                                |
| Bandwidth       | Modulation | RB size | RB offset | 20450   | 20525   | 20600   | Tune up                          |
|                 |            | 1       | 0         | 22.56   | 22.69   | 22.78   | 23.50                            |
|                 |            | 1       | 25        | 22.63   | 22.83   | 23.06   | 23.50                            |
|                 |            | 1       | 49        | 22.55   | 22.74   | 22.5    | 23.50                            |
|                 | QPSK       | 25      | 0         | 21.81   | 21.76   | 21.77   | 22.50                            |
|                 |            | 25      | 13        | 21.76   | 21.74   | 21.7    | 22.50                            |
|                 |            | 25      | 25        | 21.76   | 21.76   | 21.7    | 22.50                            |
| 408411          |            | 50      | 0         | 21.74   | 21.72   | 21.71   | 22.50                            |
| 10MHz           |            | 1       | 0         | 22.13   | 21.63   | 22.20   | 22.50                            |
|                 |            | 1       | 25        | 22.21   | 21.59   | 22.13   | 22.50                            |
|                 |            | 1       | 49        | 21.38   | 21.49   | 22.04   | 22.50                            |
|                 | 16QAM      | 25      | 0         | 20.89   | 21.00   | 20.93   | 22.50                            |
|                 |            | 25      | 13        | 20.86   | 20.99   | 20.93   | 22.50                            |
|                 |            | 25      | 25        | 20.78   | 21.00   | 20.81   | 22.00                            |
|                 |            | 50      | 0         | 20.72   | 20.72   | 20.65   | 22.00                            |

|              | LTE Band 7 |         |           |         |         | Conducted Power(dBm) |         |  |  |  |
|--------------|------------|---------|-----------|---------|---------|----------------------|---------|--|--|--|
| Donalusialth | Modulation | DD size | DD offeet | Channel | Channel | Channel              | Tuna un |  |  |  |
| Bandwidth    | Modulation | RB size | RB offset | 20775   | 21100   | 21425                | Tune up |  |  |  |
|              |            | 1       | 0         | 19.25   | 19.09   | 18.97                | 20.00   |  |  |  |
|              |            | 1       | 13        | 19.07   | 19.38   | 19.17                | 20.00   |  |  |  |
| 5MHz         | QPSK       | 1       | 24        | 19.10   | 19.32   | 18.21                | 20.00   |  |  |  |
|              |            | 12      | 0         | 18.21   | 18.57   | 18.12                | 19.00   |  |  |  |
|              |            | 12      | 6         | 18.11   | 18.61   | 18.33                | 19.00   |  |  |  |



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|                    | I                   | 12   | 13  | 18.05   | 18.63  | 18.28   | 19.00   |
|--------------------|---------------------|--|---|---|--|---|---|
|                    |                     | 25   | 0   | 18.12   | 18.53  | 18.23   | 19.00   |
|                    |                     | 1  | 0   | 18.22   | 18.92  | 17.84   | 19.00   |
|                    |                     | 1  | 13  | 18.26   | 18.85  | 18.01   | 19.00   |
|                    |                     | 1  | 24  | 18.01   | 18.92  | 17.44   | 19.00   |
|                    | 16QAM               | 12   | 0   | 17.24   | 17.61  | 17.19   | 18.00   |
|                    | 100,111             | 12   | 6   | 17.39   | 17.51  | 17.22   | 18.00   |
|                    |                     | 12   | 13  | 17.24   | 17.46  | 17.29   | 18.00   |
|                    |                     | 25   | 0   | 17.24   | 17.47  | 17.17   | 18.00   |
|                    |                     |  | -   | Channel   | Channel  | Channel   |   |
| Bandwidth          | Modulation          | RB size  | RB offset   | 20800   | 21100  | 21400   | Tune up   |
|                    |                     | 1  | 0   | 19.31   | 19.43  | 19.30   | 20.00   |
|                    |                     | 1  | 25  | 19.25   | 19.89  | 19.05   | 20.00   |
|                    |                     | 1  | 49  | 18.97   | 19.53  | 18.21   | 20.00   |
|                    | QPSK                | 25   | 0   | 18.21   | 18.52  | 18.32   | 19.00   |
|                    | 2. 5.1              | 25   | 13  | 18.15   | 18.63  | 18.32   | 19.00   |
|                    |                     | 25   | 25  | 18.08   | 18.62  | 18.30   | 19.00   |
|                    |                     |  | 0   | 18.10   | 18.74  | 18.21   | 19.00   |
| 10MHz              |                     | 50   | 0   | 18.95   | 18.44  | 18.81   | 19.00   |
|                    |                     | 1  | 25  | 19.00   | 18.67  | 18.63   | 19.00   |
|                    |                     | 1  | 49  | 18.25   | 18.52  | 17.65   | 19.00   |
|                    | 16QAM               | 25   | 0   | 17.46   | 17.71  | 17.50   | 18.00   |
|                    | TOQAW               | 25   | 13  | 17.40   | 17.71  | 17.45   | 18.00   |
|                    |                     | 25   | 25  | 17.05   | 17.73  | 17.10   | 18.00   |
|                    |                     | 50   | 0   | 17.03   | 17.70  | 17.10   | 18.00   |
|                    |                     | 30   | -   | Channel   | Channel  | Channel   | 10.00   |
| Bandwidth          | Modulation          | RB size  | RB offset   | 20825   | 21100  | 21375   | Tune up   |
|                    |                     | 1  | 0   | 19.23   | 19.47  | 19.13   | 20.00   |
|                    |                     | 1  | 38  | 18.88   | 19.57  | 19.46   | 20.00   |
|                    |                     | 1  | 74  | 18.84   | 19.17  | 18.07   | 20.00   |
|                    | QPSK                | 36   | 0   | 18.15   | 18.52  | 18.38   | 19.00   |
|                    | QI OIC              | 36   | 18  | 18.01   | 18.67  | 18.41   | 19.00   |
|                    |                     | 36   | 39  | 17.93   | 18.57  | 18.16   | 19.00   |
|                    |                     | 75   |   |   |  |   |   |
| 15MHz              |                     |  |   | 18 00   | 18 52  | 18 34   | 19.00   |
|                    |                     |  | 0   | 18.00<br>18.75  | 18.52<br>18.65   | 18.34<br>18.89  | 19.00   |
|                    |                     | 1  | 0   | 18.75   | 18.65  | 18.89   | 19.00   |
|                    |                     | 1  | 0<br>38   | 18.75<br>18.81  | 18.65<br>18.89   | 18.89<br>18.90  | 19.00<br>19.00  |
|                    | 16OAM               | 1<br>1<br>1  | 0<br>38<br>74   | 18.75<br>18.81<br>18.23   | 18.65<br>18.89<br>18.53  | 18.89<br>18.90<br>17.59   | 19.00<br>19.00<br>19.00                                       |
|                    | 16QAM               | 1<br>1<br>1<br>36                                    | 0<br>38<br>74<br>0  | 18.75<br>18.81<br>18.23<br>17.23  | 18.65<br>18.89<br>18.53<br>17.62   | 18.89<br>18.90<br>17.59<br>17.25  | 19.00<br>19.00<br>19.00<br>18.00                              |
|                    | 16QAM               | 1<br>1<br>1<br>36<br>36                              | 0<br>38<br>74<br>0<br>18                                    | 18.75<br>18.81<br>18.23<br>17.23<br>17.15   | 18.65<br>18.89<br>18.53<br>17.62<br>17.75  | 18.89<br>18.90<br>17.59<br>17.25<br>17.31   | 19.00<br>19.00<br>19.00<br>18.00<br>18.00                     |
|                    | 16QAM               | 1<br>1<br>1<br>36<br>36<br>36                        | 0<br>38<br>74<br>0<br>18<br>39                              | 18.75<br>18.81<br>18.23<br>17.23<br>17.15<br>16.94  | 18.65<br>18.89<br>18.53<br>17.62<br>17.75<br>17.52   | 18.89<br>18.90<br>17.59<br>17.25<br>17.31<br>17.06  | 19.00<br>19.00<br>19.00<br>18.00<br>18.00                     |
|                    |                     | 1<br>1<br>1<br>36<br>36<br>36<br>36<br>75            | 0<br>38<br>74<br>0<br>18<br>39                              | 18.75<br>18.81<br>18.23<br>17.23<br>17.15<br>16.94<br>17.11                                       | 18.65<br>18.89<br>18.53<br>17.62<br>17.75<br>17.52<br>17.50                                      | 18.89<br>18.90<br>17.59<br>17.25<br>17.31<br>17.06<br>17.49                                       | 19.00<br>19.00<br>19.00<br>18.00<br>18.00                     |
| Bandwidth          | 16QAM<br>Modulation | 1<br>1<br>1<br>36<br>36<br>36                        | 0<br>38<br>74<br>0<br>18<br>39                              | 18.75<br>18.81<br>18.23<br>17.23<br>17.15<br>16.94<br>17.11<br>Channel                            | 18.65<br>18.89<br>18.53<br>17.62<br>17.75<br>17.52<br>17.50<br>Channel                           | 18.89<br>18.90<br>17.59<br>17.25<br>17.31<br>17.06<br>17.49<br>Channel                            | 19.00<br>19.00<br>19.00<br>18.00<br>18.00                     |
| Bandwidth          |                     | 1<br>1<br>1<br>36<br>36<br>36<br>36<br>75<br>RB size | 0<br>38<br>74<br>0<br>18<br>39<br>0<br>RB offset            | 18.75<br>18.81<br>18.23<br>17.23<br>17.15<br>16.94<br>17.11<br>Channel<br>20850                   | 18.65<br>18.89<br>18.53<br>17.62<br>17.75<br>17.52<br>17.50<br>Channel<br>21100                  | 18.89<br>18.90<br>17.59<br>17.25<br>17.31<br>17.06<br>17.49<br>Channel<br>21350                   | 19.00<br>19.00<br>19.00<br>18.00<br>18.00<br>18.00<br>Tune up |
| Bandwidth          | Modulation          | 1<br>1<br>1<br>36<br>36<br>36<br>36<br>75<br>RB size | 0<br>38<br>74<br>0<br>18<br>39<br>0<br>RB offset            | 18.75<br>18.81<br>18.23<br>17.23<br>17.15<br>16.94<br>17.11<br>Channel<br>20850<br>19.61          | 18.65<br>18.89<br>18.53<br>17.62<br>17.75<br>17.52<br>17.50<br>Channel<br>21100<br>19.5          | 18.89<br>18.90<br>17.59<br>17.25<br>17.31<br>17.06<br>17.49<br>Channel<br>21350<br>18.42          | 19.00 19.00 19.00 18.00 18.00 18.00 18.00 Tune up             |
| Bandwidth<br>20MHz |                     | 1<br>1<br>36<br>36<br>36<br>36<br>75<br>RB size      | 0<br>38<br>74<br>0<br>18<br>39<br>0<br>RB offset<br>0<br>50 | 18.75<br>18.81<br>18.23<br>17.23<br>17.15<br>16.94<br>17.11<br>Channel<br>20850<br>19.61<br>19.63 | 18.65<br>18.89<br>18.53<br>17.62<br>17.75<br>17.52<br>17.50<br>Channel<br>21100<br>19.5<br>19.76 | 18.89<br>18.90<br>17.59<br>17.25<br>17.31<br>17.06<br>17.49<br>Channel<br>21350<br>18.42<br>19.89 | 19.00 19.00 19.00 18.00 18.00 18.00 Tune up 20.00 20.00       |
|                    | Modulation          | 1<br>1<br>1<br>36<br>36<br>36<br>36<br>75<br>RB size | 0<br>38<br>74<br>0<br>18<br>39<br>0<br>RB offset            | 18.75<br>18.81<br>18.23<br>17.23<br>17.15<br>16.94<br>17.11<br>Channel<br>20850<br>19.61          | 18.65<br>18.89<br>18.53<br>17.62<br>17.75<br>17.52<br>17.50<br>Channel<br>21100<br>19.5          | 18.89<br>18.90<br>17.59<br>17.25<br>17.31<br>17.06<br>17.49<br>Channel<br>21350<br>18.42          | 19.00 19.00 19.00 18.00 18.00 18.00 18.00 Tune up             |



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|       | 50  | 25 | 18.53 | 18.78 | 18.52 | 19.00 |
|-------|-----|----|-------|-------|-------|-------|
|       | 50  | 50 | 18.33 | 18.71 | 18.42 | 19.00 |
|       | 100 | 0  | 17.97 | 18.64 | 18.33 | 19.00 |
|       | 1   | 0  | 18.69 | 18.58 | 17.53 | 19.00 |
|       | 1   | 50 | 18.55 | 18.72 | 18.56 | 19.00 |
|       | 1   | 99 | 18.35 | 18.10 | 17.02 | 19.00 |
| 16QAM | 50  | 0  | 17.25 | 17.46 | 17.37 | 18.00 |
|       | 50  | 25 | 17.09 | 17.69 | 17.47 | 18.00 |
|       | 50  | 50 | 16.94 | 17.57 | 17.43 | 18.00 |
|       | 100 | 0  | 17.02 | 17.70 | 17.36 | 18.00 |

|             | LTE Band 38  |         |           | Conducted Power(dBm) |         |         |         |  |  |
|-------------|--------------|---------|-----------|----------------------|---------|---------|---------|--|--|
| D 1 1 1111  |              |         | 55 " .    | Channel              | Channel | Channel | _       |  |  |
| Bandwidth   | Modulation   | RB size | RB offset | 37775                | 38000   | 38225   | Tune up |  |  |
|             |              | 1       | 0         | 21.95                | 21.91   | 22.07   | 23.00   |  |  |
|             |              | 1       | 13        | 21.96                | 21.92   | 22.37   | 23.00   |  |  |
|             |              | 1       | 24        | 21.87                | 21.88   | 22.04   | 23.00   |  |  |
|             | QPSK         | 12      | 0         | 21.16                | 21.06   | 21.18   | 22.00   |  |  |
|             |              | 12      | 6         | 21.08                | 21.20   | 20.98   | 22.00   |  |  |
|             |              | 12      | 13        | 21.16                | 21.19   | 20.97   | 22.00   |  |  |
|             |              | 25      | 0         | 21.09                | 21.08   | 21.18   | 22.00   |  |  |
| 5MHz        |              | 1       | 0         | 21.47                | 20.85   | 21.36   | 22.00   |  |  |
|             |              | 1       | 13        | 21.82                | 20.92   | 21.21   | 22.00   |  |  |
|             |              |         | 24        | 21.43                | 20.85   | 21.05   | 22.00   |  |  |
|             | 16QAM        |         | 0         | 19.87                | 20.04   | 20.17   | 21.00   |  |  |
|             |              | 12      | 6         | 19.98                | 20.05   | 20.02   | 21.00   |  |  |
|             |              | 12      | 13        | 20.02                | 20.22   | 20.28   | 21.00   |  |  |
|             |              | 25      | 0         | 20.11                | 20.04   | 20.34   | 21.00   |  |  |
| Bandwidth   | Modulation   | RB size | RB offset | Channel              | Channel | Channel | Tungun  |  |  |
| Danawiath   | Modulation   |         | RB oliset | 37800                | 38000   | 38200   | Tune up |  |  |
|             |              | 1       | 0         | 21.98                | 21.91   | 22.57   | 23.00   |  |  |
|             |              | 1       | 25        | 22.35                | 22.29   | 22.24   | 23.00   |  |  |
|             |              | 1       | 49        | 22.04                | 22.03   | 21.94   | 23.00   |  |  |
|             | QPSK         | 25      | 0         | 21.11                | 21.07   | 21.37   | 22.00   |  |  |
|             |              | 25      | 13        | 21.24                | 21.20   | 21.35   | 22.00   |  |  |
|             |              | 25      | 25        | 21.17                | 21.18   | 21.23   | 22.00   |  |  |
| 10MHz       |              | 50      | 0         | 21.19                | 21.23   | 21.25   | 22.00   |  |  |
| TUNITZ      |              | 1       | 0         | 20.83                | 21.76   | 22.04   | 22.00   |  |  |
|             |              | 1       | 25        | 21.08                | 21.57   | 21.95   | 22.00   |  |  |
|             |              | 1       | 49        | 20.83                | 21.73   | 21.63   | 22.00   |  |  |
|             | 16QAM        | 25      | 0         | 20.34                | 20.49   | 20.37   | 21.00   |  |  |
|             |              | 25      | 13        | 20.05                | 20.55   | 20.20   | 21.00   |  |  |
|             |              | 25      | 25        | 20.07                | 20.33   | 20.15   | 21.00   |  |  |
|             |              | 50      | 0         | 20.08                | 20.17   | 20.30   | 21.00   |  |  |
| Donahui déb | Modulation   | DD oize | RB offset | Channel              | Channel | Channel | Tungun  |  |  |
| Bandwidth   | iviodulation | RB size | KD OIISE  | 37825                | 38000   | 38175   | Tune up |  |  |



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|           |            | 1       | 0         | 21.95   | 21.82   | 22.52   | 23.00   |  |
|-----------|------------|---------|-----------|---------|---------|---------|---|--|
|           |            | 1       | 38        | 21.91   | 22.11   | 22.30   | 23.00   |  |
|           |            | 1       | 74        | 21.97   | 22.08   | 22.08   | 23.00   |  |
|           | QPSK       | 36      | 0         | 21.30   | 21.06   | 21.45   | 22.00   |  |
|           |            | 36      | 18        | 21.10   | 21.17   | 21.42   | 22.00   |  |
|           |            | 36      | 39        | 21.13   | 21.23   | 21.09   | 22.00   |  |
| 15MHz     |            | 75      | 0         | 21.09   | 21.17   | 21.21   | 22.00   |  |
| ISWINZ    |            | 1       | 0         | 20.58   | 21.35   | 21.83   | 22.00   |  |
|           |            | 1       | 38        | 20.71   | 21.52   | 21.69   | 22.00   |  |
|           |            | 1       | 74        | 20.84   | 21.23   | 21.60   | 22.00   |  |
|           | 16QAM      | 36      | 0         | 20.26   | 20.21   | 20.50   | 21.00   |  |
|           |            | 36      | 18        | 20.04   | 20.19   | 20.27   | 21.00   |  |
|           |            | 36      | 39        | 20.18   | 20.12   | 20.18   | 23.00<br>22.00<br>22.00<br>22.00<br>22.00<br>22.00<br>22.00<br>22.00<br>21.00 |  |
|           |            | 75      | 0         | 20.20   | 20.13   | 20.16   | 21.00   |  |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tupo up   |  |
| Danuwium  | Modulation | ND SIZE | KD Ollset | 37850   | 38000   | 38150   | Tune up   |  |
|           |            | 1       | 0         | 22.29   | 22.18   | 22.59   | 23.00   |  |
|           |            | 1       | 50        | 22.73   | 22.75   | 22.82   | 23.00   |  |
|           |            | 1       | 99        | 22.5    | 22.44   | 21.91   | 23.00   |  |
|           | QPSK       | 50      | 0         | 21.37   | 21.39   | 21.62   | 22.00   |  |
|           |            | 50      | 25        | 21.39   | 21.4    | 21.67   | 22.00   |  |
|           |            | 50      | 50        | 21.37   | 21.29   | 21.51   | 22.00   |  |
| 20MHz     |            | 100     | 0         | 21.33   | 21.34   | 21.63   | 22.00   |  |
| ZUWIFIZ   |            | 1       | 0         | 21.62   | 21.65   | 21.08   | 22.00   |  |
|           |            | 1       | 50        | 21.75   | 21.86   | 21.46   | 22.00   |  |
|           |            | 1       | 99        | 20.89   | 21.76   | 20.71   | 22.00   |  |
|           | 16QAM      | 50      | 0         | 20.19   | 20.28   | 20.33   | 21.00   |  |
|           |            | 50      | 25        | 20.17   | 20.26   | 20.54   | 21.00   |  |
|           |            | 50      | 50        | 20.35   | 20.32   | 20.32   | 21.00   |  |
|           |            | 100     | 0         | 20.22   | 20.30   | 20.57   | 21.00   |  |

|           | LTE FDD Band | 10a     |           | Conducted Power(dBm) |         |         |         |  |  |
|-----------|--------------|---------|-----------|----------------------|---------|---------|---------|--|--|
| Bandwidth | Modulation   | RB size | RB offset | Channel              | Channel | Channel | Tuna un |  |  |
| bandwidth | Modulation   | RD SIZE | RB Ollset | 38725                | 38750   | 38785   | Tune up |  |  |
|           |              | 1       | 0         | 21.46                | 21.48   | 21.64   | 22.50   |  |  |
|           |              | 1       | 13        | 21.88                | 21.69   | 21.72   | 22.50   |  |  |
|           |              | 1       | 24        | 21.43                | 21.35   | 21.73   | 22.50   |  |  |
|           | QPSK         | 12      | 0         | 20.50                | 20.76   | 20.89   | 21.50   |  |  |
|           |              | 12      | 6         | 21.08                | 20.67   | 20.79   | 21.50   |  |  |
| 5MHz      |              | 12      | 13        | 20.69                | 20.70   | 20.89   | 21.50   |  |  |
| SIVITZ    |              | 25      | 0         | 20.54                | 20.51   | 20.52   | 21.50   |  |  |
|           |              | 1       | 0         | 20.56                | 20.70   | 21.33   | 21.50   |  |  |
|           |              | 1       | 13        | 20.87                | 20.94   | 20.78   | 21.50   |  |  |
|           | 16QAM        | 1       | 24        | 20.75                | 21.27   | 20.45   | 21.50   |  |  |
|           |              | 12      | 0         | 19.60                | 19.56   | 19.76   | 20.50   |  |  |
|           |              | 12      | 6         | 19.89                | 19.65   | 19.85   | 20.50   |  |  |



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|           |            | 12      | 13        | 19.54   | 19.73   | 19.70   | 20.50    |
|-----------|------------|---------|-----------|---------|---------|---------|----------|
|           |            | 25      | 0         | 19.87   | 19.78   | 19.60   | 20.50    |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up  |
| Danuwium  | Modulation | KD SIZE | KD Ollset | \       | 38750   | \       | Turie up |
|           |            | 1       | 0         | \       | 21.88   | \       | 22.50    |
|           |            | 1       | 25        | \       | 21.79   | \       | 22.50    |
|           |            | 1       | 49        | \       | 21.37   | \       | 22.50    |
|           | QPSK       | 25      | 0         | \       | 20.61   | \       | 21.50    |
|           |            | 25      | 13        | \       | 20.81   | \       | 21.50    |
|           |            | 25      | 25        | \       | 21.14   | \       | 21.50    |
| 10MHz     |            | 50      | 0         | \       | 20.78   | \       | 21.50    |
| IUIVITZ   |            | 1       | 0         | \       | 21.15   | \       | 21.50    |
|           |            | 1       | 25        | \       | 21.40   | \       | 21.50    |
|           |            | 1       | 49        | \       | 20.53   | \       | 21.50    |
|           | 16QAM      | 25      | 0         | \       | 19.91   | \       | 20.50    |
|           |            | 25      | 13        | \       | 19.80   | \       | 20.50    |
|           |            | 25      | 25        | \       | 19.69   | \       | 20.50    |
|           |            | 50      | 0         | \       | 19.80   | \       | 20.50    |

|           | LTE FDD    | Band 40b |           |         | Conducted Po | ower(dBm) |         |
|-----------|------------|----------|-----------|---------|--------------|-----------|---------|
| 5         |            |          | DD " .    | Channel | Channel      | Channel   | _       |
| Bandwidth | Modulation | RB size  | RB offset | 39175   | 39200        | 39225     | Tune up |
|           |            | 1        | 0         | 21.87   | 21.87        | 21.90     | 22.50   |
|           |            | 1        | 13        | 21.95   | 21.86        | 21.95     | 22.50   |
|           |            | 1        | 24        | 21.83   | 21.87        | 21.72     | 22.50   |
|           | QPSK       | 12       | 0         | 20.96   | 20.92        | 20.87     | 21.50   |
|           |            | 12       | 6         | 20.92   | 21.26        | 21.22     | 21.50   |
|           |            | 12       | 13        | 21.13   | 21.44        | 21.43     | 21.50   |
| 5MHz      |            | 25       | 0         | 20.91   | 21.20        | 21.13     | 21.50   |
| SIVIFIZ   |            | 1        | 0         | 21.15   | 21.50        | 20.56     | 21.50   |
|           |            |          | 13        | 21.40   | 21.16        | 21.55     | 21.50   |
|           |            | 1        | 24        | 20.82   | 20.68        | 21.22     | 21.50   |
|           | 16QAM      | 12       | 0         | 19.83   | 20.03        | 20.06     | 20.50   |
|           |            | 12       | 6         | 19.92   | 20.63        | 20.24     | 20.50   |
|           |            | 12       | 13        | 20.29   | 20.23        | 20.38     | 20.50   |
|           |            | 25       | 0         | 20.01   | 20.45        | 20.30     | 20.50   |
| Bandwidth | Modulation | RB size  | RB offset | Channel | Channel      | Channel   | Tungun  |
| Danuwium  | Modulation | KD SIZE  | KD Ollset | \       | 39200        | \         | Tune up |
|           |            | 1        | 0         | \       | 21.73        | \         | 22.50   |
|           |            | 1        | 25        | \       | 21.94        | \         | 22.50   |
|           |            | 1        | 49        | \       | 21.93        | \         | 22.50   |
| 10MH-     | QPSK       | 25       | 0         | \       | 21.32        | \         | 21.50   |
| IUWINZ    | 10MHz      | 25       | 13        | \       | 21.28        | \         | 21.50   |
|           |            | 25       | 25        |         | 21.13        | \         | 21.50   |
|           |            | 50       |           | \       | 21.19        | \         | 21.50   |
|           | 16QAM      | 1        | 0         | \       | 20.80        | \         | 21.50   |



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| _ | _ | _  | _  |   | _     |   |       |
|---|---|----|----|---|-------|---|-------|
|   |   | 1  | 25 | \ | 21.56 | \ | 21.50 |
|   |   | 1  | 49 | \ | 21.76 | \ | 21.50 |
|   |   | 25 | 0  | \ | 20.30 | \ | 20.50 |
|   |   | 25 | 13 | \ | 20.18 | \ | 20.50 |
|   |   | 25 | 25 | \ | 20.37 | \ | 20.50 |
|   |   | 50 | 0  | \ | 20.06 | \ | 20.50 |

|   | LTE Band 4 | 1        |        |         |         | Conducted Pov | wer(dBm) |         | T       |
|---|------------|----------|--------|---------|---------|---------------|----------|---------|---------|
| Bandwidth                               | Modulation | RB size  | RB     | Channel | Channel | Channel       | Channel  | Channel | Tune up |
| Dandwidth                               | Woddiation | IND SIZE | offset | 39675   | 40620   | 40147         | 41092    | 41565   |         |
|   |            | 1        | 0      | 19.53   | 19.72   | 19.68         | 19.53    | 19.89   | 21.00   |
|   |            | 1        | 13     | 19.56   | 19.99   | 19.82         | 19.9     | 19.91   | 21.00   |
|   |            | 1        | 24     | 19.47   | 19.81   | 19.87         | 19.65    | 19.83   | 20.00   |
|   | QPSK       | 12       | 0      | 18.71   | 19.09   | 19.09         | 19.18    | 19.29   | 20.00   |
|   |            | 12       | 6      | 18.63   | 19.06   | 19.23         | 18.97    | 19.34   | 20.00   |
|   |            | 12       | 13     | 18.65   | 19.16   | 19.14         | 19.22    | 19.23   | 20.00   |
| 584LL                                   |            | 25       | 0      | 18.67   | 19.11   | 19.08         | 19.06    | 19.4    | 20.00   |
| 5MHz                                    |            | 1        | 0      | 18.34   | 18.68   | 18.68         | 18.79    | 19      | 20.00   |
|   |            | 1        | 13     | 18.62   | 19.75   | 19.88         | 19.69    | 19.29   | 20.00   |
|   |            | 1        | 24     | 18.55   | 19.71   | 19.9          | 19.54    | 18.96   | 20.00   |
|   | 16QAM      | 12       | 0      | 17.44   | 17.97   | 17.99         | 17.93    | 18.32   | 19.00   |
|   |            | 12       | 6      | 17.3    | 17.87   | 17.83         | 17.85    | 18.31   | 19.00   |
|   |            | 12       | 13     | 17.32   | 18.1    | 17.96         | 18.15    | 18.29   | 19.00   |
|   |            | 25       | 0      | 17.54   | 18.12   | 17.94         | 18.17    | 18.3    | 19.00   |
|   |            |          | RB     | Channel | Channel | Channel       | Channel  | Channel | _       |
| Bandwidth                               | Modulation | RB size  | offset | 39700   | 40620   | 40160         | 41080    | 41540   | Tune up |
|   |            | 1        | 0      | 19.44   | 20.08   | 20            | 19.97    | 20.26   | 21.00   |
|   |            | 1        | 25     | 19.3    | 20.28   | 20.12         | 20.05    | 20.14   | 21.00   |
|   |            | 1        | 49     | 19.3    | 19.95   | 19.85         | 19.99    | 19.91   | 20.00   |
|   | QPSK       | 25       | 0      | 18.68   | 19.07   | 19.22         | 18.91    | 19.34   | 20.00   |
|   |            | 25       | 13     | 18.54   | 19.11   | 19.11         | 19.04    | 19.37   | 20.00   |
|   |            | 25       | 25     | 18.33   | 19.16   | 19.11         | 18.96    | 19.21   | 20.00   |
| 40141-                                  |            | 50       | 0      | 18.52   | 19.11   | 19.28         | 19.24    | 19.27   | 20.00   |
| 10MHz                                   |            | 1        | 0      | 18.63   | 19.12   | 19.02         | 19.18    | 19.27   | 20.00   |
|   |            | 1        | 25     | 18.46   | 19.59   | 19.78         | 19.7     | 19.16   | 20.00   |
|   |            | 1        | 49     | 18.06   | 19.51   | 19.52         | 19.56    | 19.43   | 20.00   |
|   | 16QAM      | 25       | 0      | 17.79   | 18.39   | 18.57         | 18.43    | 18.37   | 19.00   |
|   |            | 25       | 13     | 17.62   | 18.48   | 18.25         | 18.49    | 18.4    | 19.00   |
|   |            | 25       | 25     | 17.63   | 18.33   | 18.57         | 18.47    | 18.27   | 19.00   |
|   |            | 50       | 0      | 17.6    | 18.18   | 18.24         | 18.21    | 18.33   | 19.00   |
| D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |            | DD :     | RB     | Channel | Channel | Channel       | Channel  | Channel | _       |
| Bandwidth                               | Modulation | RB size  | offset | 39725   | 40620   | 40172         | 41067    | 41515   | Tune up |
|   |            | 1        | 0      | 19.48   | 20.31   | 20.27         | 20.06    | 20.18   | 21.00   |
| 451                                     | 0501       | 1        | 38     | 19.13   | 19.8    | 19.69         | 19.92    | 20.12   | 21.00   |
| 15MHz                                   | QPSK       | 1        | 74     | 19.04   | 19.88   | 19.89         | 19.9     | 19.92   | 20.00   |
|   |            | 36       | 0      | 18.43   | 19.03   | 18.95         | 18.89    | 19.56   | 20.00   |



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|           |            | 36      | 18     | 18.47   | 18.96   | 19.08   | 19.01   | 19.35   | 20.00   |
|-----------|------------|---------|--------|---------|---------|---------|---------|---------|---------|
|           |            | 36      | 39     | 18.29   | 19.11   | 19.2    | 19.14   | 19.35   | 20.00   |
|           |            | 75      | 0      | 18.38   | 19.08   | 19.25   | 19.11   | 19.24   | 20.00   |
|           |            | 1       | 0      | 18.09   | 19.31   | 19.05   | 19.21   | 19.31   | 20.00   |
|           |            | 1       | 38     | 18.14   | 18.85   | 18.86   | 18.81   | 19.92   | 20.00   |
|           |            | 1       | 74     | 17.75   | 19.14   | 19.32   | 19.02   | 19.65   | 20.00   |
|           | 16QAM      | 36      | 0      | 17.45   | 17.99   | 18.22   | 17.89   | 18.43   | 19.00   |
|           |            | 36      | 18     | 17.48   | 18.16   | 18.03   | 18.13   | 18.4    | 19.00   |
|           |            | 36      | 39     | 17.12   | 18.02   | 17.98   | 18.24   | 18.38   | 19.00   |
|           |            | 75      | 0      | 17.42   | 18.13   | 18.27   | 18.29   | 18.39   | 19.00   |
| Dondwidth | Madulation | DD size | RB     | Channel | Channel | Channel | Channel | Channel | Tungun  |
| Bandwidth | Modulation | RB size | offset | 39750   | 40620   | 40185   | 41055   | 41490   | Tune up |
|           |            | 1       | 0      | 19.45   | 19.73   | 19.6    | 20      | 20.56   | 21.00   |
|           |            | 1       | 50     | 19.45   | 20.38   | 20.4    | 20.45   | 20.22   | 21.00   |
|           |            | 1       | 99     | 19.07   | 19.88   | 19.97   | 19.99   | 20.03   | 20.00   |
|           | QPSK       | 50      | 0      | 18.46   | 19.08   | 19.06   | 19.23   | 19.46   | 20.00   |
|           |            | 50      | 25     | 18.67   | 19.09   | 19.17   | 18.85   | 19.23   | 20.00   |
|           |            | 50      | 50     | 18.24   | 19.1    | 19.16   | 19.14   | 19.29   | 20.00   |
| 20MHz     |            | 100     | 0      | 18.23   | 19.03   | 19.2    | 19.21   | 19.35   | 20.00   |
| ZUIVITZ   |            | 1       | 0      | 19.03   | 19.55   | 19.61   | 19.48   | 19.27   | 20.00   |
|           |            | 1       | 50     | 19.06   | 19.37   | 19.4    | 19.34   | 19.32   | 20.00   |
|           |            | 1       | 99     | 18.49   | 19.33   | 19.26   | 19.39   | 19.32   | 20.00   |
|           | 16QAM      | 50      | 0      | 17.45   | 18.16   | 17.97   | 18.06   | 18.68   | 19.00   |
|           |            | 50      | 25     | 17.54   | 18.16   | 18.21   | 18.28   | 18.39   | 19.00   |
|           |            | 50      | 50     | 17.19   | 18.1    | 17.99   | 17.94   | 18.44   | 19.00   |
|           |            | 100     | 0      | 17.33   | 18.24   | 18.16   | 18.14   | 18.13   | 19.00   |



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#### 9.7 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D04, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
- 3) "\*" is repeated measurement.



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#### 9.7.1 SAR Result Of GSM850

|               | GSM850 SAR Test Record        |                   |               |                      |                        |                         |                       |               |                             |                    |  |  |
|---------------|-------------------------------|-------------------|---------------|----------------------|------------------------|-------------------------|-----------------------|---------------|-----------------------------|--------------------|--|--|
| Test position | Test mode                     | Test<br>ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | Tune up<br>Limit(dBm) | Scaled factor | Scaled<br>SAR 1-g<br>(W/kg) | Liquid<br>Temp.(℃) |  |  |
|               | Body Test data(Separate 10mm) |                   |               |                      |                        |                         |                       |               |                             |                    |  |  |
| Front side    | GPRS 3TS                      | 190/836.6         | 1:2.77        | 0.046                | 0.09                   | 29.41                   | 30.00                 | 1.146         | 0.053                       | 22.3               |  |  |
| Back side     | GPRS 3TS                      | 190/836.6         | 1:2.77        | 0.265                | 0.01                   | 29.41                   | 30.00                 | 1.146         | 0.304                       | 22.3               |  |  |
| Left side     | GPRS 3TS                      | 190/836.6         | 1:2.77        | 0.093                | 0.04                   | 29.41                   | 30.00                 | 1.146         | 0.107                       | 22.3               |  |  |
| Right side    | GPRS 3TS                      | 190/836.6         | 1:2.77        | 0.045                | 0.06                   | 29.41                   | 30.00                 | 1.146         | 0.052                       | 22.3               |  |  |
| Top side      | GPRS 3TS                      | 190/836.6         | 1:2.77        | 0.001                | 0.01                   | 29.41                   | 30.00                 | 1.146         | 0.001                       | 22.3               |  |  |
| Bottom side   | GPRS 3TS                      | 190/836.6         | 1:2.77        | 0.100                | 0.09                   | 29.41                   | 30.00                 | 1.146         | 0.115                       | 22.3               |  |  |



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#### 9.7.2 SAR Result Of GSM1900

|                    |              |                   | GSM           | 1900 SAR             | Test Re                | cord                    |                       |                  |                             |                    |
|--------------------|--------------|-------------------|---------------|----------------------|------------------------|-------------------------|-----------------------|------------------|-----------------------------|--------------------|
| Test position      | Test<br>mode | Test<br>ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | Tune up<br>Limit(dBm) | Scaled<br>factor | Scaled<br>SAR 1-g<br>(W/kg) | Liquid<br>Temp.(℃) |
|                    |              |                   | Body T        | est data(So          | eparate 1              | I0mm)                   |                       |                  |                             |                    |
| Front side         | GPRS 3TS     | 661/1880          | 1:2.77        | 0.079                | 0.09                   | 26.35                   | 27.00                 | 1.161            | 0.092                       | 22.2               |
| Back side          | GPRS 3TS     | 661/1880          | 1:2.77        | 1.220                | 0.06                   | 26.35                   | 27.00                 | 1.161            | 1.417                       | 22.2               |
| Back side-Repeated | GPRS 3TS     | 661/1880          | 1:2.77        | 1.130                | 0.09                   | 26.35                   | 27.00                 | 1.161            | 1.312                       | 22.2               |
| Left side          | GPRS 3TS     | 661/1880          | 1:2.77        | 0.066                | 0.06                   | 26.35                   | 27.00                 | 1.161            | 0.076                       | 22.2               |
| Right side         | GPRS 3TS     | 661/1880          | 1:2.77        | 0.198                | 0.04                   | 26.35                   | 27.00                 | 1.161            | 0.230                       | 22.2               |
| Top side           | GPRS 3TS     | 661/1880          | 1:2.77        | 0.013                | 0.06                   | 26.35                   | 27.00                 | 1.161            | 0.015                       | 22.2               |
| Bottom side        | GPRS 3TS     | 661/1880          | 1:2.77        | 0.433                | 0.04                   | 26.35                   | 27.00                 | 1.161            | 0.503                       | 22.2               |
| Back side          | GPRS 3TS     | 512/1850.2        | 1:2.77        | 0.818                | 0.19                   | 25.27                   | 27.00                 | 1.489            | 1.218                       | 22.2               |
| Back side          | GPRS 3TS     | 810/1909.8        | 1:2.77        | 0.800                | 0.02                   | 26.32                   | 27.00                 | 1.169            | 0.936                       | 22.2               |

| Test Position | Channel/<br>Frequency | Measured SAR<br>(1g) | 1 <sup>st</sup> Repeated | Ratio       | 2 <sup>nd</sup> Repeated | 3 <sup>rd</sup> Repeated |  |
|---------------|-----------------------|----------------------|--------------------------|-------------|--------------------------|--------------------------|--|
|               | (MHz)                 | (19)                 | SAR (1g)                 |             | SAR (1g)                 | SAR (1g)                 |  |
| Back side     | 661/1880              | 1.22                 | 1.13                     | 1.079646018 | N/A                      | N/A                      |  |

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was  $\geq$  1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

<sup>5)</sup> The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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#### 9.7.3 SAR Result Of WCMDA II

|               |           |                   |               | WB2 SAF              | R Test Record       | d                       |       |               |                                 |                    |
|---------------|-----------|-------------------|---------------|----------------------|---------------------|-------------------------|-------|---------------|---------------------------------|--------------------|
| Test position | Test mode | Test<br>ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power drift<br>(dB) | Conducted<br>Power(dBm) |       | Scaled factor | Scaled<br>SAR 1-<br>g<br>(W/kg) | Liquid<br>Temp.(℃) |
|               |           |                   | Во            | dy Test dat          | a(Separate 10       | Omm)                    |       |               |                                 |                    |
| Front side    | RMC       | 9400/1880         | 1:1           | 0.087                | 0.09                | 23.77                   | 24.00 | 1.054         | 0.092                           | 22.1               |
| Back side     | RMC       | 9400/1880         | 1:1           | 0.999                | 0.04                | 23.77                   | 24.00 | 1.054         | 1.053                           | 22.1               |
| Left side     | RMC       | 9400/1880         | 1:1           | 0.090                | -0.01               | 23.77                   | 24.00 | 1.054         | 0.095                           | 22.1               |
| Right side    | RMC       | 9400/1880         | 1:1           | 0.116                | 0.02                | 23.77                   | 24.00 | 1.054         | 0.122                           | 22.1               |
| Top side      | RMC       | 9400/1880         | 1:1           | 0.009                | 0.06                | 23.77                   | 24.00 | 1.054         | 0.009                           | 22.1               |
| Bottom side   | RMC       | 9400/1880         | 1:1           | 0.331                | 0.07                | 23.77                   | 24.00 | 1.054         | 0.349                           | 22.1               |
| Back side     | RMC       | 9262/1852.4       | 1:1           | 1.190                | 0.03                | 23.69                   | 24.00 | 1.074         | 1.278                           | 22.1               |
| Back side     | RMC       | 9538/1907.6       | 1:1           | 0.912                | 0.02                | 23.65                   | 24.00 | 1.084         | 0.989                           | 22.1               |



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#### 9.7.4 SAR Result Of WCMDAV

|               | WB5 SAR Test Record           |                   |               |                      |                        |                         |       |               |                             |                    |  |  |
|---------------|-------------------------------|-------------------|---------------|----------------------|------------------------|-------------------------|-------|---------------|-----------------------------|--------------------|--|--|
| Test position | Test<br>mode                  | Test<br>ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) |       | Scaled factor | Scaled<br>SAR 1-g<br>(W/kg) | Liquid<br>Temp.(℃) |  |  |
|               | Body Test data(Separate 10mm) |                   |               |                      |                        |                         |       |               |                             |                    |  |  |
| Front side    | RMC                           | 4182/836.4        | 1:1           | 0.071                | -0.13                  | 23.19                   | 24.00 | 1.205         | 0.086                       | 22.3               |  |  |
| Back side     | RMC                           | 4182/836.4        | 1:1           | 0.341                | 0.11                   | 23.19                   | 24.00 | 1.205         | 0.411                       | 22.3               |  |  |
| Left side     | RMC                           | 4182/836.4        | 1:1           | 0.125                | -0.06                  | 23.19                   | 24.00 | 1.205         | 0.151                       | 22.3               |  |  |
| Right side    | RMC                           | 4182/836.4        | 1:1           | 0.068                | 0.01                   | 23.19                   | 24.00 | 1.205         | 0.082                       | 22.3               |  |  |
| Top side      | RMC                           | 4182/836.4        | 1:1           | 0.006                | -0.08                  | 23.19                   | 24.00 | 1.205         | 0.007                       | 22.3               |  |  |
| Bottom side   | RMC                           | 4182/836.4        | 1:1           | 0.108                | 0.04                   | 23.19                   | 24.00 | 1.205         | 0.130                       | 22.3               |  |  |



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### 9.7.5 SAR Result Of LTE Band 2

|                                    | LTE Band 2 SAR Test Record |            |                |               |                      |                        |                         |                       |               |                             |                    |  |  |
|------------------------------------|----------------------------|------------|----------------|---------------|----------------------|------------------------|-------------------------|-----------------------|---------------|-----------------------------|--------------------|--|--|
| Test position                      | BW.                        | Test mode  | Test ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | Tune up<br>Limit(dBm) | Scaled factor | Scaled<br>SAR 1-g<br>(W/kg) | Liquid<br>Temp.(℃) |  |  |
| Body Test data (Separate 10mm 1RB) |                            |            |                |               |                      |                        |                         |                       |               |                             |                    |  |  |
| Front side                         | 20                         | QPSK 1_50  | 18900/1880     | 1:1           | 0.075                | -0.04                  | 23.58                   | 24.00                 | 1.102         | 0.083                       | 22.1               |  |  |
| Back side                          | 20                         | QPSK 1_50  | 18900/1880     | 1:1           | 0.946                | -0.19                  | 23.58                   | 24.00                 | 1.102         | 1.042                       | 22.1               |  |  |
| Left side                          | 20                         | QPSK 1_50  | 18900/1880     | 1:1           | 0.096                | 0.13                   | 23.58                   | 24.00                 | 1.102         | 0.106                       | 22.1               |  |  |
| Right side                         | 20                         | QPSK 1_50  | 18900/1880     | 1:1           | 0.095                | 0.18                   | 23.58                   | 24.00                 | 1.102         | 0.105                       | 22.1               |  |  |
| Top side                           | 20                         | QPSK 1_50  | 18900/1880     | 1:1           | 0.009                | 0.05                   | 23.58                   | 24.00                 | 1.102         | 0.010                       | 22.1               |  |  |
| Bottom side                        | 20                         | QPSK 1_50  | 18900/1880     | 1:1           | 0.319                | -0.12                  | 23.58                   | 24.00                 | 1.102         | 0.351                       | 22.1               |  |  |
| Back side                          | 20                         | QPSK 1_50  | 18700/1860     | 1:1           | 1.230                | 0.17                   | 23.56                   | 24.00                 | 1.107         | 1.361                       | 22.1               |  |  |
| Back side-Repeated                 | 20                         | QPSK 1_50  | 18700/1860     | 1:1           | 1.090                | -0.09                  | 23.56                   | 24.00                 | 1.107         | 1.206                       | 22.1               |  |  |
| Back side                          | 20                         | QPSK 1_99  | 19100/1900     | 1:1           | 0.940                | -0.04                  | 23.44                   | 24.00                 | 1.138         | 1.069                       | 22.1               |  |  |
|                                    |                            |            | Body Test      | data (        | Separa               | te 10m                 | m 50%RB)                |                       |               |                             |                    |  |  |
| Front side                         | 20                         | QPSK 50_0  | 18900/1880     | 1:1           | 0.058                | 0.09                   | 22.54                   | 23.00                 | 1.112         | 0.064                       | 22.1               |  |  |
| Back side                          | 20                         | QPSK 50_0  | 18900/1880     | 1:1           | 0.842                | -0.08                  | 22.54                   | 23.00                 | 1.112         | 0.936                       | 22.1               |  |  |
| Left side                          | 20                         | QPSK 50_0  | 18900/1880     | 1:1           | 0.071                | 0.05                   | 22.54                   | 23.00                 | 1.112         | 0.079                       | 22.1               |  |  |
| Right side                         | 20                         | QPSK 50_0  | 18900/1880     | 1:1           | 0.082                | 0.10                   | 22.54                   | 23.00                 | 1.112         | 0.091                       | 22.1               |  |  |
| Top side                           | 20                         | QPSK 50_0  | 18900/1880     | 1:1           | 0.006                | -0.13                  | 22.54                   | 23.00                 | 1.112         | 0.007                       | 22.1               |  |  |
| Bottom side                        | 20                         | QPSK 50_0  | 18900/1880     | 1:1           | 0.275                | 0.10                   | 22.54                   | 23.00                 | 1.112         | 0.306                       | 22.1               |  |  |
| Back side                          | 20                         | QPSK 50_0  | 18700/1860     | 1:1           | 0.910                | -0.09                  | 22.43                   | 23.00                 | 1.140         | 1.038                       | 22.1               |  |  |
| Back side                          | 20                         | QPSK 50_0  | 19100/1900     | 1:1           | 0.670                | -0.11                  | 22.51                   | 23.00                 | 1.119         | 0.750                       | 22.1               |  |  |
|                                    |                            |            | Body Test      | data (S       | Separat              | e 10mr                 | n 100%RB)               |                       |               |                             |                    |  |  |
| Back side                          | 20                         | QPSK 100_0 | 18900/1880     | 1:1           | 0.857                | -0.14                  | 22.56                   | 23.00                 | 1.107         | 0.948                       | 22.1               |  |  |



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#### 9.7.6 SAR Result Of LTE Band 4

| 5.7.0 SAR RESI                     | LTE Band 4 SAR Test Record |            |                |               |                      |                        |                         |                       |               |        |                    |  |  |
|------------------------------------|----------------------------|------------|----------------|---------------|----------------------|------------------------|-------------------------|-----------------------|---------------|--------|--------------------|--|--|
|                                    |                            |            | LIEE           | anu 4         |                      |                        | oru                     |                       |               | Scaled |                    |  |  |
| Test position                      | BW.                        | Test mode  | Test ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | Tune up<br>Limit(dBm) | Scaled factor | SAR    | Liquid<br>Temp.(℃) |  |  |
| Body Test data (Separate 10mm 1RB) |                            |            |                |               |                      |                        |                         |                       |               |        |                    |  |  |
| Front side                         | 20                         | QPSK 1_50  | 20175/1732.5   | 1:1           | 0.129                | 0.02                   | 23.13                   | 23.50                 | 1.089         | 0.140  | 22.3               |  |  |
| Back side                          | 20                         | QPSK 1_50  | 20175/1732.5   | 1:1           | 0.730                | -0.07                  | 23.13                   | 23.50                 | 1.089         | 0.795  | 22.3               |  |  |
| Left side                          | 20                         | QPSK 1_50  | 20175/1732.5   | 1:1           | 0.106                | -0.05                  | 23.13                   | 23.50                 | 1.089         | 0.115  | 22.3               |  |  |
| Right side                         | 20                         | QPSK 1_50  | 20175/1732.5   | 1:1           | 0.250                | -0.01                  | 23.13                   | 23.50                 | 1.089         | 0.272  | 22.3               |  |  |
| Top side                           | 20                         | QPSK 1_50  | 20175/1732.5   | 1:1           | 0.086                | -0.05                  | 23.13                   | 23.50                 | 1.089         | 0.094  | 22.3               |  |  |
| Bottom side                        | 20                         | QPSK 1_50  | 20175/1732.5   | 1:1           | 0.305                | -0.02                  | 23.13                   | 23.50                 | 1.089         | 0.332  | 22.3               |  |  |
| Back side                          | 20                         | QPSK 1_50  | 20050/1720     | 1:1           | 0.879                | 0.05                   | 23.12                   | 23.50                 | 1.091         | 0.959  | 22.3               |  |  |
| Back side-Repeated                 | 20                         | QPSK 1_50  | 20050/1720     | 1:1           | 0.834                | -0.01                  | 23.12                   | 23.50                 | 1.091         | 0.910  | 22.3               |  |  |
| Back side                          | 20                         | QPSK 1_50  | 20300/1745     | 1:1           | 0.827                | 0.10                   | 22.99                   | 23.50                 | 1.125         | 0.930  | 22.3               |  |  |
|                                    |                            |            | Body Test      | data (S       | eparate              | 10mm                   | 50%RB)                  |                       |               |        |                    |  |  |
| Front side                         | 20                         | QPSK 50_0  | 20175/1732.5   | 1:1           | 0.131                | 0.17                   | 22.21                   | 22.50                 | 1.069         | 0.140  | 22.3               |  |  |
| Back side                          | 20                         | QPSK 50_0  | 20175/1732.5   | 1:1           | 0.692                | 0.02                   | 22.21                   | 22.50                 | 1.069         | 0.740  | 22.3               |  |  |
| Left side                          | 20                         | QPSK 50_0  | 20175/1732.5   | 1:1           | 0.104                | -0.10                  | 22.21                   | 22.50                 | 1.069         | 0.111  | 22.3               |  |  |
| Right side                         | 20                         | QPSK 50_0  | 20175/1732.5   | 1:1           | 0.255                | -0.11                  | 22.21                   | 22.50                 | 1.069         | 0.273  | 22.3               |  |  |
| Top side                           | 20                         | QPSK 50_0  | 20175/1732.5   | 1:1           | 0.077                | -0.14                  | 22.21                   | 22.50                 | 1.069         | 0.082  | 22.3               |  |  |
| Bottom side                        | 20                         | QPSK 50_0  | 20175/1732.5   | 1:1           | 0.298                | -0.02                  | 22.21                   | 22.50                 | 1.069         | 0.319  | 22.3               |  |  |
| Back side                          | 20                         | QPSK 50_0  | 20050/1720     | 1:1           | 0.766                | -0.19                  | 21.99                   | 22.50                 | 1.125         | 0.861  | 22.3               |  |  |
| Back side                          | 20                         | QPSK 50_0  | 20300/1745     | 1:1           | 0.799                | 0.13                   | 22.04                   | 22.50                 | 1.112         | 0.888  | 22.3               |  |  |
|                                    |                            |            | Body Test of   | data (S       | eparate              | 10mm <sup>-</sup>      | 100%RB)                 |                       |               |        |                    |  |  |
| Back side                          | 20                         | QPSK 100_0 | 20175/1732.5   | 1:1           | 0.769                | -0.01                  | 22.04                   | 22.50                 | 1.112         | 0.855  | 22.3               |  |  |

| Test Position | Channel/<br>Frequency<br>(MHz) | Measured<br>SAR (1g) | 1 <sup>st</sup><br>Repeated<br>SAR (1g) | Ratio       | 2 <sup>nd</sup><br>Repeated<br>SAR (1g) | 3 <sup>rd</sup><br>Repeated<br>SAR (1g) |
|---------------|--------------------------------|----------------------|---|-------------|---|---|
| Back side     | 20050/1720                     | 0.879                | 0.834                                   | 1.053956835 | N/A                                     | N/A                                     |

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

- 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is >
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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### 9.7.7 SAR Result Of LTE Band 5

|  | LTE Band 5 SAR Test Record |           |                |               |                      |                        |                         |                       |                  |                             |                    |  |  |
|--|----------------------------|-----------|----------------|---------------|----------------------|------------------------|-------------------------|-----------------------|------------------|-----------------------------|--------------------|--|--|
| Test position  | BW.                        | Test mode | Test ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | Tune up<br>Limit(dBm) | Scaled<br>factor | Scaled<br>SAR 1-g<br>(W/kg) | Liquid<br>Temp.(℃) |  |  |
|  |                            |           | В              | ody Test      | data (Sep            | arate 10               | mm 1RB)                 |                       |                  |                             |                    |  |  |
| Front side 10 QPSK 1_25   20600/844   1:1   0.063   -0.15   23.06   23.50   1.107   0.070   22.3 |                            |           |                |               |                      |                        |                         |                       |                  |                             |                    |  |  |
| Back side  | 10                         | QPSK 1_25 | 20600/844      | 1:1           | 0.227                | 0.03                   | 23.06                   | 23.50                 | 1.107            | 0.251                       | 22.3               |  |  |
| Left side  | 10                         | QPSK 1_25 | 20600/844      | 1:1           | 0.116                | -0.06                  | 23.06                   | 23.50                 | 1.107            | 0.128                       | 22.3               |  |  |
| Right side   | 10                         | QPSK 1_25 | 20600/844      | 1:1           | 0.056                | 0.12                   | 23.06                   | 23.50                 | 1.107            | 0.062                       | 22.3               |  |  |
| Top side   | 10                         | QPSK 1_25 | 20600/844      | 1:1           | 0.001                | -0.12                  | 23.06                   | 23.50                 | 1.107            | 0.001                       | 22.3               |  |  |
| Bottom side  | 10                         | QPSK 1_25 | 20600/844      | 1:1           | 0.115                | 0.06                   | 23.06                   | 23.50                 | 1.107            | 0.127                       | 22.3               |  |  |
|  |                            |           | Boo            | dy Test da    | ata (Sepa            | rate 10m               | m 50%RB)                |                       |                  |                             |                    |  |  |
| Front side   | 10                         | QPSK 25_0 | 20450/829      | 1:1           | 0.048                | -0.19                  | 21.81                   | 22.50                 | 1.172            | 0.056                       | 22.3               |  |  |
| Back side  | 10                         | QPSK 25_0 | 20450/829      | 1:1           | 0.205                | 0.05                   | 21.81                   | 22.50                 | 1.172            | 0.240                       | 22.3               |  |  |
| Left side  | 10                         | QPSK 25_0 | 20450/829      | 1:1           | 0.097                | -0.18                  | 21.81                   | 22.50                 | 1.172            | 0.114                       | 22.3               |  |  |
| Right side   | 10                         | QPSK 25_0 | 20450/829      | 1:1           | 0.049                | 0.02                   | 21.81                   | 22.50                 | 1.172            | 0.057                       | 22.3               |  |  |
| Top side   | 10                         | QPSK 25_0 | 20450/829      | 1:1           | 0.001                | 0.13                   | 21.81                   | 22.50                 | 1.172            | 0.001                       | 22.3               |  |  |
| Bottom side  | 10                         | QPSK 25_0 | 20450/829      | 1:1           | 0.079                | 0.01                   | 21.81                   | 22.50                 | 1.172            | 0.093                       | 22.3               |  |  |



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#### 9.7.8 SAR Result Of LTE Band 7

| LTE Band 7 SAR Test Record |  |            |                |               |         |                        |                         |                       |               |       |                    |  |
|----------------------------|--|------------|----------------|---------------|---------|------------------------|-------------------------|-----------------------|---------------|-------|--------------------|--|
| Test position              | BW.  | Test mode  | Test ch./Freq. | Duty<br>Cycle | /\//ka\ | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | Tune up<br>Limit(dBm) | Scaled factor |       | Liquid<br>Temp.(℃) |  |
|                            |  |            | Body Tes       | st data (     | Separa  | te 10mr                | n 1RB)                  |                       |               |       |                    |  |
| Front side                 | 20   | QPSK 1_50  | 21350/2560     | 1:1           | 0.056   | 0.01                   | 19.89                   | 20.00                 | 1.026         | 0.058 | 22.2               |  |
| Back side                  | 20   | QPSK 1_50  | 21350/2560     | 1:1           | 1.400   | -0.08                  | 19.89                   | 20.00                 | 1.026         | 1.436 | 22.2               |  |
| Back side-Repeated         | 20   | QPSK 1_50  | 21350/2560     | 1:1           | 1.320   | 0.05                   | 19.89                   | 20.00                 | 1.026         | 1.354 | 22.2               |  |
| Left side                  | 20   | QPSK 1_50  | 21350/2560     | 1:1           | 0.033   | 0.10                   | 19.89                   | 20.00                 | 1.026         | 0.034 | 22.2               |  |
| Right side                 | 20   | QPSK 1_50  | 21350/2560     | 1:1           | 0.023   | 0.05                   | 19.89                   | 20.00                 | 1.026         | 0.023 | 22.2               |  |
| Top side                   | 20   | QPSK 1_50  | 21350/2560     | 1:1           | 0.009   | 0.01                   | 19.89                   | 20.00                 | 1.026         | 0.009 | 22.2               |  |
| Bottom side                | 20   | QPSK 1_50  | 21350/2560     | 1:1           | 0.646   | 0.01                   | 19.89                   | 20.00                 | 1.026         | 0.663 | 22.2               |  |
| Back side                  | 20   | QPSK 1_50  | 20850/2510     | 1:1           | 1.050   | 0.04                   | 19.63                   | 20.00                 | 1.089         | 1.143 | 22.2               |  |
| Back side                  | 20   | QPSK 1_50  | 21100/2535     | 1:1           | 1.310   | 0.04                   | 19.76                   | 20.00                 | 1.057         | 1.384 | 22.2               |  |
|                            |  |            | Body Test      | data (S       | eparate | 10mm                   | 50%RB)                  |                       |               |       |                    |  |
| Front side                 | 20   | QPSK 50_25 | 21100/2535     | 1:1           | 0.055   | 0.02                   | 18.78                   | 19.00                 | 1.052         | 0.058 | 22.2               |  |
| Back side                  | 20   | QPSK 50_25 | 21100/2535     | 1:1           | 1.110   | 0.01                   | 18.78                   | 19.00                 | 1.052         | 1.168 | 22.2               |  |
| Left side                  | 20   | QPSK 50_25 | 21100/2535     | 1:1           | 0.025   | 0.04                   | 18.78                   | 19.00                 | 1.052         | 0.026 | 22.2               |  |
| Right side                 | 20   | QPSK 50_25 | 21100/2535     | 1:1           | 0.025   | 0.02                   | 18.78                   | 19.00                 | 1.052         | 0.026 | 22.2               |  |
| Top side                   | 20   | QPSK 50_25 | 21100/2535     | 1:1           | 0.011   | 0.03                   | 18.78                   | 19.00                 | 1.052         | 0.012 | 22.2               |  |
| Bottom side                | 20   | QPSK 50_25 | 21100/2535     | 1:1           | 0.609   | 0.09                   | 18.78                   | 19.00                 | 1.052         | 0.641 | 22.2               |  |
| Back side                  | 20   | QPSK 50_25 | 20850/2510     | 1:1           | 0.872   | -0.08                  | 18.53                   | 19.00                 | 1.114         | 0.972 | 22.2               |  |
| Back side                  | Back side 20 QPSK 50_25 21350/2560 1:1 1.030 0.04 18.52 19.00 1.117 1.150 22.2 |            |                |               |         |                        |                         |                       |               |       |                    |  |
|                            |  |            | Body Test of   | data (Se      | eparate | 10mm <sup>-</sup>      | 100%RB)                 |                       |               |       |                    |  |
| Back side                  | 20   | QPSK 100_0 | 21100/2535     | 1:1           | 1.010   | 0.09                   | 18.64                   | 19.00                 | 1.086         | 1.097 | 22.2               |  |

| Test Position | Channel/<br>Frequency | Measured SAR (1g) | 1 <sup>st</sup> Repeated | Ratio       | 2 <sup>nd</sup><br>Repeated | 3 <sup>rd</sup><br>Repeated |
|---------------|-----------------------|-------------------|--------------------------|-------------|-----------------------------|-----------------------------|
|               | (MHz)                 |                   | SAR (1g)                 |             | SAR (1g)                    | SAR (1g)                    |
| Back side     | 21350/2560            | 1.4               | 1.32                     | 1.060606061 | N/A                         | N/A                         |

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

<sup>5)</sup> The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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#### 9.7.9 SAR Result Of LTE Band 38

|               | LTE Band 38 SAR Test Record |            |                |               |                      |                        |                         |       |        |       |                    |  |  |  |
|---------------|-----------------------------|------------|----------------|---------------|----------------------|------------------------|-------------------------|-------|--------|-------|--------------------|--|--|--|
| Test position | BW.                         | Test mode  | Test ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) |       | Scaled |       | Liquid<br>Temp.(℃) |  |  |  |
|               |                             |            | Во             | dy Test da    | ata (Sepa            | rate 10m               | ım 1RB)                 |       |        |       |                    |  |  |  |
| Front side    | 20                          | QPSK 1_50  | 38150/2610     | 1:1.58        | 0.059                | -0.11                  | 22.82                   | 23.00 | 1.042  | 0.061 | 22.2               |  |  |  |
| Back side     | 20                          | QPSK 1_50  | 38150/2610     | 1:1.58        | 1.160                | -0.05                  | 22.82                   | 23.00 | 1.042  | 1.209 | 22.2               |  |  |  |
| Left side     | 20                          | QPSK 1_50  | 38150/2610     | 1:1.58        | 0.044                | 0.11                   | 22.82                   | 23.00 | 1.042  | 0.046 | 22.2               |  |  |  |
| Right side    | 20                          | QPSK 1_50  | 38150/2610     | 1:1.58        | 0.001                | 0.06                   | 22.82                   | 23.00 | 1.042  | 0.001 | 22.2               |  |  |  |
| Top side      | 20                          | QPSK 1_50  | 38150/2610     | 1:1.58        | 0.001                | -0.14                  | 22.82                   | 23.00 | 1.042  | 0.001 | 22.2               |  |  |  |
| Bottom side   | 20                          | QPSK 1_50  | 38150/2610     | 1:1.58        | 0.473                | 0.12                   | 22.82                   | 23.00 | 1.042  | 0.493 | 22.2               |  |  |  |
| Back side     | 20                          | QPSK 1_50  | 37850/2580     | 1:1.58        | 1.140                | 0.17                   | 22.73                   | 23.00 | 1.064  | 1.213 | 22.2               |  |  |  |
| Back side     | 20                          | QPSK 1_50  | 38000/2595     | 1:1.58        | 1.340                | 0.05                   | 22.75                   | 23.00 | 1.059  | 1.419 | 22.2               |  |  |  |
|               |                             |            | Body           | / Test data   | a (Separa            | te 10mm                | 1 50%RB)                |       |        |       |                    |  |  |  |
| Front side    | 20                          | QPSK 50_25 | 38150/2610     | 1:1.58        | 0.052                | 0.03                   | 21.67                   | 22.00 | 1.079  | 0.056 | 22.2               |  |  |  |
| Back side     | 20                          | QPSK 50_25 | 38150/2610     | 1:1.58        | 0.986                | -0.02                  | 21.67                   | 22.00 | 1.079  | 1.064 | 22.2               |  |  |  |
| Left side     | 20                          | QPSK 50_25 | 38150/2610     | 1:1.58        | 0.001                | 0.10                   | 21.67                   | 22.00 | 1.079  | 0.001 | 22.2               |  |  |  |
| Right side    | 20                          | QPSK 50_25 | 38150/2610     | 1:1.58        | 0.001                | 0.14                   | 21.67                   | 22.00 | 1.079  | 0.001 | 22.2               |  |  |  |
| Top side      | 20                          | QPSK 50_25 | 38150/2610     | 1:1.58        | 0.001                | 0.18                   | 21.67                   | 22.00 | 1.079  | 0.001 | 22.2               |  |  |  |
| Bottom side   | 20                          | QPSK 50_25 | 38150/2610     | 1:1.58        | 0.431                | 0.04                   | 21.67                   | 22.00 | 1.079  | 0.465 | 22.2               |  |  |  |
| Back side     | 20                          | QPSK 50_25 | 37850/2580     | 1:1.58        | 0.972                | -0.19                  | 21.39                   | 22.00 | 1.151  | 1.119 | 22.2               |  |  |  |
| Back side     | 20                          | QPSK 50_25 | 38000/2595     | 1:1.58        | 1.020                | 0.04                   | 21.40                   | 22.00 | 1.148  | 1.171 | 22.2               |  |  |  |
|               |                             |            | Body           | Test data     | (Separa              | te 10mm                | 100%RB)                 |       |        |       |                    |  |  |  |
| Back side     | 20                          | QPSK 100_0 | 38150/2610     | 1:1.58        | 1.150                | 0.19                   | 21.63                   | 22.00 | 1.089  | 1.252 | 22.2               |  |  |  |



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#### 9.7.10 SAR Result Of LTE Band 40a

|               | LTE Band 40 SAR Test Record |            |                |               |                      |                        |                         |       |               |       |                    |  |  |
|---------------|-----------------------------|------------|----------------|---------------|----------------------|------------------------|-------------------------|-------|---------------|-------|--------------------|--|--|
| Test position | BW.                         | Test mode  | Test ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) |       | Scaled factor |       | Liquid<br>Temp.(℃) |  |  |
|               |                             |            | Во             | dy Test       | data (Sep            | arate 10m              | nm 1RB)                 |       |               |       |                    |  |  |
| Front side    |                             |            |                |               |                      |                        |                         |       |               |       |                    |  |  |
| Back side     | 10                          | QPSK 1_0   | 38750/2310     | 1:1.58        | 0.314                | 0.07                   | 21.88                   | 22.50 | 1.153         | 0.362 | 22.4               |  |  |
| Left side     | 10                          | QPSK 1_0   | 38750/2310     | 1:1.58        | 0.001                | -0.14                  | 21.88                   | 22.50 | 1.153         | 0.001 | 22.4               |  |  |
| Right side    | 10                          | QPSK 1_0   | 38750/2310     | 1:1.58        | 0.093                | 0.16                   | 21.88                   | 22.50 | 1.153         | 0.107 | 22.4               |  |  |
| Top side      | 10                          | QPSK 1_0   | 38750/2310     | 1:1.58        | 0.001                | -0.01                  | 21.88                   | 22.50 | 1.153         | 0.001 | 22.4               |  |  |
| Bottom side   | 10                          | QPSK 1_0   | 38750/2310     | 1:1.58        | 0.168                | 0.12                   | 21.88                   | 22.50 | 1.153         | 0.194 | 22.4               |  |  |
|               |                             |            | Body           | / Test da     | ata (Sepa            | rate 10mn              | n 50%RB)                |       |               |       |                    |  |  |
| Front side    | 10                          | QPSK 25_25 | 38750/2310     | 1:1.58        | 0.001                | 0.18                   | 21.14                   | 21.50 | 1.086         | 0.001 | 22.4               |  |  |
| Back side     | 10                          | QPSK 25_25 | 38750/2310     | 1:1.58        | 0.291                | 0.19                   | 21.14                   | 21.50 | 1.086         | 0.316 | 22.4               |  |  |
| Left side     | 10                          | QPSK 25_25 | 38750/2310     | 1:1.58        | 0.001                | 0.06                   | 21.14                   | 21.50 | 1.086         | 0.001 | 22.4               |  |  |
| Right side    | 10                          | QPSK 25_25 | 38750/2310     | 1:1.58        | 0.062                | 0.04                   | 21.14                   | 21.50 | 1.086         | 0.067 | 22.4               |  |  |
| Top side      | 10                          | QPSK 25_25 | 38750/2310     | 1:1.58        | 0.001                | 0.10                   | 21.14                   | 21.50 | 1.086         | 0.001 | 22.4               |  |  |
| Bottom side   | 10                          | QPSK 25_25 | 38750/2310     | 1:1.58        | 0.138                | 0.16                   | 21.14                   | 21.50 | 1.086         | 0.150 | 22.4               |  |  |



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#### 9.7.11 SAR Result Of LTE Band 40b

|               | LTE Band 40 SAR Test Record |           |                |               |                      |                        |                         |       |        |                                 |      |  |  |
|---------------|-----------------------------|-----------|----------------|---------------|----------------------|------------------------|-------------------------|-------|--------|---------------------------------|------|--|--|
| Test position | BW.                         | Test mode | Test ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | -     | Scaled | Scaled<br>SAR 1-<br>g<br>(W/kg) |      |  |  |
|               |                             |           | В              | ody Test      | data (Se             | parate 10n             | nm 1RB)                 |       |        |                                 |      |  |  |
| Front side    |                             |           |                |               |                      |                        |                         |       |        |                                 |      |  |  |
| Back side     |                             |           |                |               |                      |                        |                         |       |        |                                 |      |  |  |
| Left side     | 10                          | QPSK 1_25 | 39200/2355     | 1:1.58        | 0.001                | -0.02                  | 21.94                   | 22.50 | 1.138  | 0.001                           | 22.4 |  |  |
| Right side    | 10                          | QPSK 1_25 | 39200/2355     | 1:1.58        | 0.091                | -0.04                  | 21.94                   | 22.50 | 1.138  | 0.104                           | 22.4 |  |  |
| Top side      | 10                          | QPSK 1_25 | 39200/2355     | 1:1.58        | 0.001                | 0.13                   | 21.94                   | 22.50 | 1.138  | 0.001                           | 22.4 |  |  |
| Bottom side   | 10                          | QPSK 1_25 | 39200/2355     | 1:1.58        | 0.208                | 0.08                   | 21.94                   | 22.50 | 1.138  | 0.237                           | 22.4 |  |  |
|               |                             |           | Boo            | dy Test d     | lata (Sepa           | arate 10mr             | n 50%RB)                |       |        |                                 |      |  |  |
| Front side    | 10                          | QPSK 25_0 | 39200/2355     | 1:1.58        | 0.001                | 0.14                   | 21.32                   | 21.50 | 1.042  | 0.001                           | 22.4 |  |  |
| Back side     | 10                          | QPSK 25_0 | 39200/2355     | 1:1.58        | 0.309                | 0.04                   | 21.32                   | 21.50 | 1.042  | 0.322                           | 22.4 |  |  |
| Left side     | 10                          | QPSK 25_0 | 39200/2355     | 1:1.58        | 0.001                | 0.13                   | 21.32                   | 21.50 | 1.042  | 0.001                           | 22.4 |  |  |
| Right side    | 10                          | QPSK 25_0 | 39200/2355     | 1:1.58        | 0.067                | -0.19                  | 21.32                   | 21.50 | 1.042  | 0.070                           | 22.4 |  |  |
| Top side      | 10                          | QPSK 25_0 | 39200/2355     | 1:1.58        | 0.001                | 0.13                   | 21.32                   | 21.50 | 1.042  | 0.001                           | 22.4 |  |  |
| Bottom side   | 10                          | QPSK 25_0 | 39200/2355     | 1:1.58        | 0.153                | -0.02                  | 21.32                   | 21.50 | 1.042  | 0.159                           | 22.4 |  |  |



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#### 9.7.12 SAR Result Of LTE Band 41

| LTE Band 41 SAR Test Record |     |            |                |               |                      |                        |                         |       |               |       |                    |  |  |
|-----------------------------|-----|------------|----------------|---------------|----------------------|------------------------|-------------------------|-------|---------------|-------|--------------------|--|--|
| Test position               | BW. | Test mode  | Test ch./Freq. | Duty<br>Cycle | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) |       | Scaled factor |       | Liquid<br>Temp.(℃) |  |  |
|                             |     |            | Boo            | dy Test da    | ata (Sepa            | rate 10m               | m 1RB)                  |       |               |       |                    |  |  |
| Front side                  | 20  | QPSK 1_0   | 41490/2680     | 1:1.58        | 0.036                | 0.010                  | 20.56                   | 21.00 | 1.107         | 0.040 | 22.2               |  |  |
| Back side                   | 20  | QPSK 1_0   | 41490/2680     | 1:1.58        | 0.871                | 0.09                   | 20.56                   | 21.00 | 1.107         | 0.964 | 22.2               |  |  |
| Left side                   |     |            |                |               |                      |                        |                         |       |               |       |                    |  |  |
| Right side                  | 20  | QPSK 1_0   | 41490/2680     | 1:1.58        | 0.03                 | 20.56                  | 21.00                   | 1.107 | 0.008         | 22.2  |                    |  |  |
| Top side                    | 20  | QPSK 1_0   | 41490/2680     | 1:1.58        | 0.006                | 0.02                   | 20.56                   | 21.00 | 1.107         | 0.007 | 22.2               |  |  |
| Bottom side                 | 20  | QPSK 1_0   | 41490/2680     | 1:1.58        | 0.347                | 0.01                   | 20.56                   | 21.00 | 1.107         | 0.384 | 22.2               |  |  |
| Back side                   | 20  | QPSK 1_0   | 39750/2506     | 1:1.58        | 0.604                | 0.02                   | 19.45                   | 21.00 | 1.429         | 0.863 | 22.2               |  |  |
| Back side                   | 20  | QPSK 1_50  | 40185/2549.5   | 1:1.58        | 1.020                | 0.04                   | 20.40                   | 21.00 | 1.148         | 1.171 | 22.2               |  |  |
| Back side                   | 20  | QPSK 1_50  | 40620/2593     | 1:1.58        | 0.920                | 0.07                   | 20.38                   | 21.00 | 1.153         | 1.061 | 22.2               |  |  |
| Back side                   | 20  | QPSK 1_50  | 41055/2636.5   | 1:1.58        | 0.824                | 0.01                   | 20.45                   | 21.00 | 1.135         | 0.935 | 22.2               |  |  |
|                             |     |            | Body           | Test data     | a (Separa            | te 10mm                | 50%RB)                  |       |               |       |                    |  |  |
| Front side                  | 20  | QPSK 50_0  | 41490/2680     | 1:1.58        | 0.030                | 0.02                   | 19.46                   | 20.00 | 1.132         | 0.034 | 22.2               |  |  |
| Back side                   | 20  | QPSK 50_0  | 41490/2680     | 1:1.58        | 0.706                | 0.03                   | 19.46                   | 20.00 | 1.132         | 0.799 | 22.2               |  |  |
| Left side                   | 20  | QPSK 50_0  | 41490/2680     | 1:1.58        | 0.021                | 0.02                   | 19.46                   | 20.00 | 1.132         | 0.024 | 22.2               |  |  |
| Right side                  | 20  | QPSK 50_0  | 41490/2680     | 1:1.58        | 0.006                | 0.03                   | 19.46                   | 20.00 | 1.132         | 0.007 | 22.2               |  |  |
| Top side                    | 20  | QPSK 50_0  | 41490/2680     | 1:1.58        | 0.003                | 0.05                   | 19.46                   | 20.00 | 1.132         | 0.004 | 22.2               |  |  |
| Bottom side                 | 20  | QPSK 50_0  | 41490/2680     | 1:1.58        | 0.275                | 0.10                   | 19.46                   | 20.00 | 1.132         | 0.311 | 22.2               |  |  |
| Back side                   | 20  | QPSK 50_25 | 39750/2506     | 1:1.58        | 0.578                | -0.03                  | 18.67                   | 20.00 | 1.358         | 0.785 | 22.2               |  |  |
| Back side                   | 20  | QPSK 50_25 | 40185/2549.5   | 1:1.58        | 0.795                | -0.16                  | 19.17                   | 20.00 | 1.211         | 0.962 | 22.2               |  |  |
| Back side                   | 20  | QPSK 50_50 | 40620/2593     | 1:1.58        | 0.731                | 0.07                   | 19.10                   | 20.00 | 1.230         | 0.899 | 22.2               |  |  |
| Back side                   | 20  | QPSK 50_0  | 41055/2636.5   | 1:1.58        | 0.665                | 0.09                   | 19.23                   | 20.00 | 1.194         | 0.794 | 22.2               |  |  |
|                             |     |            | Body           | Test data     | (Separat             | e 10mm                 | 100%RB)                 |       |               |       |                    |  |  |
| Back side                   | 20  | QPSK 100_0 | 41490/2680     | 1:1.58        | 0.687                | 0.08                   | 19.21                   | 19.35 | 1.033         | 0.710 | 22.2               |  |  |



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#### 9.7.13 SAR Result Of 2.4G wifi

|                  | Wi-Fi 2.4G SAR Test Record |                   |               |                                   |                      |                        |                         |                       |               |       |                    |  |  |  |
|------------------|----------------------------|-------------------|---------------|-----------------------------------|----------------------|------------------------|-------------------------|-----------------------|---------------|-------|--------------------|--|--|--|
| Test<br>position | Test<br>mode               | Test<br>ch./Freq. | Duty<br>Cycle | Duty<br>Cycle<br>Scaled<br>factor | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | Tune up<br>Limit(dBm) | Scaled factor | _     | Liquid<br>Temp.(℃) |  |  |  |
|                  |                            |                   |               | Body <sup>-</sup>                 | Test Data            | (Separate              | 10mm)                   |                       |               |       |                    |  |  |  |
| Front side       | 802.11b                    | 11/2462           | 98.95%        | 1.011                             | 0.003                | 0.16                   | 13.83                   | 14.00                 | 1.040         | 0.003 | 22.3               |  |  |  |
| Back side        | 802.11b                    | 11/2462           | 98.95%        | 1.011                             | 0.012                | -0.16                  | 13.83                   | 14.00                 | 1.040         | 0.013 | 22.3               |  |  |  |
| Left side        | 802.11b                    | 11/2462           | 98.95%        | 1.011                             | 0.001                | 0.04                   | 13.83                   | 14.00                 | 1.040         | 0.001 | 22.3               |  |  |  |
| Right side       | 802.11b                    | 11/2462           | 98.95%        | 1.011                             | 0.039                | 0.04                   | 13.83                   | 14.00                 | 1.040         | 0.041 | 22.3               |  |  |  |
| Top side         | 802.11b                    | 11/2462           | 98.95%        | 1.011                             | 0.001                | -0.18                  | 13.83                   | 14.00                 | 1.040         | 0.001 | 22.3               |  |  |  |
| Bottom side      | 802.11b                    | 11/2462           | 98.95%        | 1.011                             | 0.003                | -0.11                  | 13.83                   | 14.00                 | 1.040         | 0.003 | 22.3               |  |  |  |



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#### 9.7.14 SAR Result Of 5G wifi

|               |                         |                   |               | Wi                                | i-Fi 5G SAF          | Test Re                | cord                    |                       |       |                             |                    |  |  |
|---------------|-------------------------|-------------------|---------------|-----------------------------------|----------------------|------------------------|-------------------------|-----------------------|-------|-----------------------------|--------------------|--|--|
|               | Ant6 Test Record chain0 |                   |               |                                   |                      |                        |                         |                       |       |                             |                    |  |  |
| Test position | Test<br>mode            | Test<br>ch./Freq. | Duty<br>Cycle | Duty<br>Cycle<br>Scaled<br>factor | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | Tune up<br>Limit(dBm) |       | Scaled<br>SAR 1-g<br>(W/kg) | Liquid<br>Temp.(℃) |  |  |
|               |                         |                   | В             | ody Test                          | data of U-N          | II-2A (Se <sub>l</sub> | oarate 10mm)            |                       |       |                             |                    |  |  |
| Front side    | 802.11a                 | 64/5320           | 97.08%        | 1.030                             | 0.071                | -0.05                  | 13.54                   | 14.00                 | 1.112 | 0.081                       | 22.4               |  |  |
| Back side     | 802.11a                 | 64/5320           | 97.08%        | 1.030                             | 0.111                | 0.13                   | 13.54                   | 14.00                 | 1.112 | 0.127                       | 22.4               |  |  |
| Left side     | 802.11a                 | 64/5320           | 97.08%        | 1.030                             | 0.050                | 0.07                   | 13.54                   | 14.00                 | 1.112 | 0.057                       | 22.4               |  |  |
| Right side    | 802.11a                 | 64/5320           | 97.08%        | 1.030                             | 0.231                | -0.11                  | 13.54                   | 14.00                 | 1.112 | 0.265                       | 22.4               |  |  |
| Top side      | 802.11a                 | 64/5320           | 97.08%        | 1.030                             | 0.072                | -0.17                  | 13.54                   | 14.00                 | 1.112 | 0.082                       | 22.4               |  |  |
| Bottom side   | 802.11a                 | 64/5320           | 97.08%        | 1.030                             | 0.081                | -0.15                  | 13.54                   | 14.00                 | 1.112 | 0.093                       | 22.4               |  |  |
|               |                         |                   | В             | ody Test                          | data of U-N          | II-2C (Se <sub>l</sub> | parate 10mm)            |                       |       |                             |                    |  |  |
| Front side    | 802.11a                 | 116/5580          | 97.08%        | 1.030                             | 0.068                | 0.07                   | 12.47                   | 13.00                 | 1.130 | 0.079                       | 22.4               |  |  |
| Back side     | 802.11a                 | 116/5580          | 97.08%        | 1.030                             | 0.071                | -0.15                  | 12.47                   | 13.00                 | 1.130 | 0.083                       | 22.4               |  |  |
| Left side     | 802.11a                 | 116/5580          | 97.08%        | 1.030                             | 0.073                | 0.02                   | 12.47                   | 13.00                 | 1.130 | 0.085                       | 22.4               |  |  |
| Right side    | 802.11a                 | 116/5580          | 97.08%        | 1.030                             | 0.119                | -0.03                  | 12.47                   | 13.00                 | 1.130 | 0.138                       | 22.4               |  |  |
| Top side      | 802.11a                 | 116/5580          | 97.08%        | 1.030                             | 0.080                | -0.19                  | 12.47                   | 13.00                 | 1.130 | 0.093                       | 22.4               |  |  |
| Bottom side   | 802.11a                 | 116/5580          | 97.08%        | 1.030                             | 0.071                | 0.00                   | 12.47                   | 13.00                 | 1.130 | 0.083                       | 22.4               |  |  |
|               |                         |                   | E             | Body Test                         | data of U-N          | III-3 (Sep             | arate 10mm)             |                       |       |                             |                    |  |  |
| Front side    | 802.11a                 | 149/5745          | 97.08%        | 1.030                             | 0.073                | -0.10                  | 9.83                    | 10.5                  | 1.167 | 0.088                       | 22.4               |  |  |
| Back side     | 802.11a                 | 149/5745          | 97.08%        | 1.030                             | 0.100                | -0.11                  | 9.83                    | 10.5                  | 1.167 | 0.120                       | 22.4               |  |  |
| Left side     | 802.11a                 | 149/5745          | 97.08%        | 1.030                             | 0.063                | 0.07                   | 9.83                    | 10.5                  | 1.167 | 0.076                       | 22.4               |  |  |
| Right side    | 802.11a                 | 149/5745          | 97.08%        | 1.030                             | 0.226                | -0.03                  | 9.83                    | 10.5                  | 1.167 | 0.272                       | 22.4               |  |  |
| Top side      | 802.11a                 | 149/5745          | 97.08%        | 1.030                             | 0.078                | 0.13                   | 9.83                    | 10.5                  | 1.167 | 0.094                       | 22.4               |  |  |
| Bottom side   | 802.11a                 | 149/5745          | 97.08%        | 1.030                             | 0.094                | -0.17                  | 9.83                    | 10.5                  | 1.167 | 0.113                       | 22.4               |  |  |



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#### 9.7.15 SAR Result Of BT

|               | Bluetooth SAR Test Record |                   |               |                                   |                      |                        |                         |      |       |                                 |                    |  |  |  |
|---------------|---------------------------|-------------------|---------------|-----------------------------------|----------------------|------------------------|-------------------------|------|-------|---------------------------------|--------------------|--|--|--|
|               | Ant9 Test Record          |                   |               |                                   |                      |                        |                         |      |       |                                 |                    |  |  |  |
| Test position | Test<br>mode              | Test<br>ch./Freq. | Duty<br>Cycle | Duty<br>Cycle<br>Scaled<br>factor | SAR<br>(W/kg)<br>1-g | Power<br>drift<br>(dB) | Conducted<br>Power(dBm) | -    |       | Scaled<br>SAR 1-<br>g<br>(W/kg) | Liquid<br>Temp.(℃) |  |  |  |
|               |                           |                   |               | Body                              | Test data (          | Separate 1             | 10mm)                   |      |       |                                 |                    |  |  |  |
| Front side    | DH5                       | 39/2441           | 77.54%        | 1.290                             | 0.003                | 0.02                   | 7.81                    | 8.00 | 1.045 | 0.004                           | 22.3               |  |  |  |
| Back side     | DH5                       | 39/2441           | 77.54%        | 1.290                             | 0.006                | 0.05                   | 7.81                    | 8.00 | 1.045 | 0.009                           | 22.3               |  |  |  |
| Left side     | DH5                       | 39/2441           | 77.54%        | 1.290                             | 0.003                | 0.02                   | 7.81                    | 8.00 | 1.045 | 0.004                           | 22.3               |  |  |  |
| Right side    | DH5                       | 39/2441           | 77.54%        | 1.290                             | 0.017                | 0.08                   | 7.81                    | 8.00 | 1.045 | 0.023                           | 22.3               |  |  |  |
| Top side      | DH5                       | 39/2441           | 77.54%        | 1.290                             | 0.001                | 0.01                   | 7.81                    | 8.00 | 1.045 | 0.001                           | 22.3               |  |  |  |
| Bottom side   | DH5                       | 39/2441           | 77.54%        | 1.290                             | 0.007                | 0.03                   | 7.81                    | 8.00 | 1.045 | 0.010                           | 22.3               |  |  |  |



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## 9.8 Multiple Transmitter Evaluation

#### 9.8.1 Simultaneous SAR SAR test evaluation

#### Simultaneous Transmission

| NO. | Simultaneous Transmission Configuration | Body |
|-----|---|------|
| 1   | WWAN + WIFI 2.4GHz                      | Yes  |
| 2   | WWAN + WIFI 5GHz                        | Yes  |
| 3   | WWAN + BT                               | Yes  |
| 4   | WWAN + WIFI 5GHz + BT                   | Yes  |

Simultaneous Transmission SAR Summation Scenario for body

|          |             |       | SARma     | ax (W/kg) |       |       |       |        |       |
|----------|-------------|-------|-----------|-----------|-------|-------|-------|--------|-------|
| Test p   | oosition    | Main  | WiFi 2.4G | WiFi 5G   | ВТ    |       | Summe | ed SAR |       |
|          |             | 1     | 2         | 3         | 4     | 1+2   | 1+3   | 1+4    | 1+3+4 |
|          | Front side  | 0.053 | 0.003     | 0.088     | 0.004 | 0.056 | 0.141 | 0.057  | 0.145 |
|          | Back side   | 0.304 | 0.013     | 0.127     | 0.009 | 0.317 | 0.431 | 0.313  | 0.440 |
| GSM850   | Left side   | 0.107 | 0.001     | 0.085     | 0.004 | 0.108 | 0.192 | 0.111  | 0.196 |
| GSIVIOSU | Right side  | 0.052 | 0.041     | 0.272     | 0.023 | 0.093 | 0.324 | 0.075  | 0.347 |
|          | Top side    | 0.001 | 0.001     | 0.094     | 0.001 | 0.002 | 0.095 | 0.002  | 0.096 |
|          | Bottom side | 0.115 | 0.003     | 0.113     | 0.010 | 0.118 | 0.228 | 0.125  | 0.238 |
|          | Front side  | 0.092 | 0.003     | 0.088     | 0.004 | 0.095 | 0.180 | 0.096  | 0.184 |
|          | Back side   | 1.417 | 0.013     | 0.127     | 0.009 | 1.430 | 1.544 | 1.426  | 1.553 |
| GSM1900  | Left side   | 0.076 | 0.001     | 0.085     | 0.004 | 0.077 | 0.161 | 0.080  | 0.165 |
| G3W1900  | Right side  | 0.230 | 0.041     | 0.272     | 0.023 | 0.271 | 0.502 | 0.253  | 0.525 |
|          | Top side    | 0.015 | 0.001     | 0.094     | 0.001 | 0.016 | 0.109 | 0.016  | 0.110 |
|          | Bottom side | 0.503 | 0.003     | 0.113     | 0.010 | 0.506 | 0.616 | 0.513  | 0.626 |
|          | Front side  | 0.092 | 0.003     | 0.088     | 0.004 | 0.095 | 0.180 | 0.096  | 0.184 |
|          | Back side   | 1.278 | 0.013     | 0.127     | 0.009 | 1.291 | 1.405 | 1.287  | 1.414 |
| W DO     | Left side   | 0.095 | 0.001     | 0.085     | 0.004 | 0.096 | 0.180 | 0.099  | 0.184 |
| W B2     | Right side  | 0.122 | 0.041     | 0.272     | 0.023 | 0.163 | 0.394 | 0.145  | 0.417 |
|          | Top side    | 0.009 | 0.001     | 0.094     | 0.001 | 0.010 | 0.103 | 0.010  | 0.104 |
|          | Bottom side | 0.349 | 0.003     | 0.113     | 0.010 | 0.352 | 0.462 | 0.359  | 0.472 |
|          | Front side  | 0.086 | 0.003     | 0.088     | 0.004 | 0.089 | 0.174 | 0.090  | 0.178 |
|          | Back side   | 0.411 | 0.013     | 0.127     | 0.009 | 0.424 | 0.538 | 0.420  | 0.547 |
| W/DE     | Left side   | 0.151 | 0.001     | 0.085     | 0.004 | 0.152 | 0.236 | 0.155  | 0.240 |
| W B5     | Right side  | 0.082 | 0.041     | 0.272     | 0.023 | 0.123 | 0.354 | 0.105  | 0.377 |
|          | Top side    | 0.007 | 0.001     | 0.094     | 0.001 | 0.008 | 0.101 | 0.008  | 0.102 |
|          | Bottom side | 0.130 | 0.003     | 0.113     | 0.010 | 0.133 | 0.243 | 0.140  | 0.253 |
|          | Front side  | 0.083 | 0.003     | 0.088     | 0.004 | 0.086 | 0.171 | 0.087  | 0.175 |
| LTE DO   | Back side   | 1.361 | 0.013     | 0.127     | 0.009 | 1.374 | 1.488 | 1.370  | 1.497 |
| LTE B2   | Left side   | 0.106 | 0.001     | 0.085     | 0.004 | 0.107 | 0.191 | 0.110  | 0.195 |
|          | Right side  | 0.105 | 0.041     | 0.272     | 0.023 | 0.146 | 0.377 | 0.128  | 0.400 |



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|          | Top side    | 0.010 | 0.001 | 0.094 | 0.001 | 0.011 | 0.104 | 0.011 | 0.105 |
|----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
|          | Bottom side | 0.351 | 0.003 | 0.113 | 0.010 | 0.354 | 0.464 | 0.361 | 0.474 |
|          | Front side  | 0.140 | 0.003 | 0.088 | 0.004 | 0.143 | 0.228 | 0.144 | 0.232 |
|          | Back side   | 0.959 | 0.013 | 0.127 | 0.009 | 0.972 | 1.086 | 0.968 | 1.095 |
| LTE B4   | Left side   | 0.115 | 0.001 | 0.085 | 0.004 | 0.116 | 0.200 | 0.119 | 0.204 |
|          | Right side  | 0.273 | 0.041 | 0.272 | 0.023 | 0.314 | 0.545 | 0.296 | 0.568 |
|          | Top side    | 0.094 | 0.001 | 0.094 | 0.001 | 0.095 | 0.188 | 0.095 | 0.189 |
|          | Bottom side | 0.332 | 0.003 | 0.113 | 0.010 | 0.335 | 0.445 | 0.342 | 0.455 |
| LTE B5   | Front side  | 0.070 | 0.003 | 0.088 | 0.004 | 0.073 | 0.158 | 0.074 | 0.162 |
|          | Back side   | 0.251 | 0.013 | 0.127 | 0.009 | 0.264 | 0.378 | 0.260 | 0.387 |
|          | Left side   | 0.128 | 0.001 | 0.085 | 0.004 | 0.129 | 0.213 | 0.132 | 0.217 |
|          | Right side  | 0.062 | 0.041 | 0.272 | 0.023 | 0.103 | 0.334 | 0.085 | 0.357 |
|          | Top side    | 0.001 | 0.001 | 0.094 | 0.001 | 0.002 | 0.095 | 0.002 | 0.096 |
|          | Bottom side | 0.127 | 0.003 | 0.113 | 0.010 | 0.130 | 0.240 | 0.137 | 0.250 |
|          | Front side  | 0.058 | 0.003 | 0.088 | 0.004 | 0.061 | 0.146 | 0.062 | 0.150 |
|          | Back side   | 1.436 | 0.013 | 0.127 | 0.009 | 1.449 | 1.563 | 1.445 | 1.572 |
| L TE D7  | Left side   | 0.034 | 0.001 | 0.085 | 0.004 | 0.035 | 0.119 | 0.038 | 0.123 |
| LTE B7   | Right side  | 0.026 | 0.041 | 0.272 | 0.023 | 0.067 | 0.298 | 0.049 | 0.321 |
|          | Top side    | 0.012 | 0.001 | 0.094 | 0.001 | 0.013 | 0.106 | 0.013 | 0.107 |
|          | Bottom side | 0.663 | 0.003 | 0.113 | 0.010 | 0.666 | 0.776 | 0.673 | 0.786 |
|          | Front side  | 0.061 | 0.003 | 0.088 | 0.004 | 0.064 | 0.149 | 0.065 | 0.153 |
|          | Back side   | 1.419 | 0.013 | 0.127 | 0.009 | 1.432 | 1.546 | 1.428 | 1.555 |
| LTE DOG  | Left side   | 0.046 | 0.001 | 0.085 | 0.004 | 0.047 | 0.131 | 0.050 | 0.135 |
| LTE B38  | Right side  | 0.001 | 0.041 | 0.272 | 0.023 | 0.042 | 0.273 | 0.024 | 0.296 |
|          | Top side    | 0.001 | 0.001 | 0.094 | 0.001 | 0.002 | 0.095 | 0.002 | 0.096 |
|          | Bottom side | 0.493 | 0.003 | 0.113 | 0.010 | 0.496 | 0.606 | 0.503 | 0.616 |
|          | Front side  | 0.009 | 0.003 | 0.088 | 0.004 | 0.012 | 0.097 | 0.013 | 0.101 |
|          | Back side   | 0.362 | 0.013 | 0.127 | 0.009 | 0.375 | 0.489 | 0.371 | 0.498 |
| LTE DAG  | Left side   | 0.001 | 0.001 | 0.085 | 0.004 | 0.002 | 0.086 | 0.005 | 0.090 |
| LTE B40a | Right side  | 0.107 | 0.041 | 0.272 | 0.023 | 0.148 | 0.379 | 0.130 | 0.402 |
|          | Top side    | 0.001 | 0.001 | 0.094 | 0.001 | 0.002 | 0.095 | 0.002 | 0.096 |
|          | Bottom side | 0.194 | 0.003 | 0.113 | 0.010 | 0.197 | 0.307 | 0.204 | 0.317 |
|          | Front side  | 0.010 | 0.003 | 0.088 | 0.004 | 0.013 | 0.098 | 0.014 | 0.102 |
|          | Back side   | 0.408 | 0.013 | 0.127 | 0.009 | 0.421 | 0.535 | 0.417 | 0.544 |
| LTE DAOb | Left side   | 0.001 | 0.001 | 0.085 | 0.004 | 0.002 | 0.086 | 0.005 | 0.090 |
| LTE B40b | Right side  | 0.104 | 0.041 | 0.272 | 0.023 | 0.145 | 0.376 | 0.127 | 0.399 |
|          | Top side    | 0.001 | 0.001 | 0.094 | 0.001 | 0.002 | 0.095 | 0.002 | 0.096 |
|          | Bottom side | 0.237 | 0.003 | 0.113 | 0.010 | 0.240 | 0.350 | 0.247 | 0.360 |
|          | Front side  | 0.040 | 0.003 | 0.088 | 0.004 | 0.043 | 0.128 | 0.044 | 0.132 |
|          | Back side   | 1.171 | 0.013 | 0.127 | 0.009 | 1.184 | 1.298 | 1.180 | 1.307 |
| LTE B41  | Left side   | 0.028 | 0.001 | 0.085 | 0.004 | 0.029 | 0.113 | 0.032 | 0.117 |
| LIE D41  | Right side  | 0.008 | 0.041 | 0.272 | 0.023 | 0.049 | 0.280 | 0.031 | 0.303 |
|          | Top side    | 0.007 | 0.001 | 0.094 | 0.001 | 0.008 | 0.101 | 0.008 | 0.102 |
|          | Bottom side | 0.384 | 0.003 | 0.113 | 0.010 | 0.387 | 0.497 | 0.394 | 0.507 |



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# 10 Fauinment list

| <u>10</u>   | Equipment  | IIST                  |                      |                      |                     |                         |  |  |
|---|--|-----------------------|----------------------|----------------------|---------------------|-------------------------|--|--|
|   | Test Platform SPEAG DASY Professional                  |                       |                      |                      |                     |                         |  |  |
| Description SAR Test System (Frequency range 300MHz-6GHz) |  |                       |                      |                      |                     |                         |  |  |
| So  | Software Reference DASY52 52.10.4(1527)                |                       |                      |                      |                     |                         |  |  |
| Hardware Reference  |  |                       |                      |                      |                     |                         |  |  |
|   | Equipment  | Manufacturer          | Model                | Inventory no         | Calibration<br>Date | Due date of calibration |  |  |
| $\boxtimes$   | DAE  | SPEAG                 | DAE4                 | SZ-WSR-M-028         | 2024/4/16           | 2025/4/15               |  |  |
| $\boxtimes$   | E-Field Probe  | SPEAG                 | EX3DV4               | SZ-WSR-M-079         | 2023/9/11           | 2024/9/10               |  |  |
| $\boxtimes$   | Validation Kits  | SPEAG                 | D835V2               | SZ-WSR-M-033         | 2022/11/2           | 2025/11/1               |  |  |
| $\boxtimes$   | Validation Kits SPEAG                                  |                       | D1750V2              | SZ-WSR-M-035         | 2022/06/17          | 2025/06/16              |  |  |
| $\boxtimes$   | Validation Kits  | SPEAG                 | D1900V2              | D1900V2 SZ-WSR-M-036 |                     | 2025/11/1               |  |  |
| $\boxtimes$   | Validation Kits  | SPEAG                 | D2300V2              | SZ-WSR-M-038         | 2022/6/16           | 2025/6/15               |  |  |
| $\boxtimes$   | Validation Kits  | SPEAG                 | D2450V2 SZ-WSR-M-039 |                      | 2022/11/02          | 2025/11/01              |  |  |
| $\boxtimes$   | Validation Kits SPEAG                                  |                       | D2600V2              | 600V2 SZ-WSR-M-040   |                     | 2025/6/13               |  |  |
| $\boxtimes$   | Validation Kits  | SPEAG                 | D5GHZV2              | SZ-WSR-M-046         | 2022/11/1           | 2025/10/31              |  |  |
| $\boxtimes$   | Test software SPEAG                                    |                       | DASY5                | SZ-WSR-S-001         | NCR                 | NCR                     |  |  |
| $\boxtimes$   | Dielectric parameter probes                            | SPEAG                 | DAKS-12              | SZ-WSR-M-090         | 2023/7/31           | 2024/7/30               |  |  |
| $\boxtimes$   | Vector Network<br>Analyzer and Vector<br>Reflectometer | SPEAG                 | DAKS_VNA R60         | SZ-WSR-M-091         | 2023/7/31           | 2024/7/30               |  |  |
| $\boxtimes$   | Radio<br>Communication<br>Analyzer                     | Communication Anritsu |                      | SZ-WSR-M-005         | 2024/01/30          | 2025/01/29              |  |  |
|   | RF Bi-Directional Agilent Agilent                      |                       | 86205-60001          | SZ-WSR-A-004         | NCR                 | NCR                     |  |  |
| $\boxtimes$   | Signal Generator                                       | Agilent               | N5171B               | SZ-WSR-M-006         | 2024/1/30           | 2025/1/29               |  |  |
| $\boxtimes$   | Preamplifier   | Mini-Circuits         | ZHL-42W              | SZ-WSR-A-001         | NCR                 | NCR                     |  |  |
| $\boxtimes$   | Preamplifier Compliance Directions Systems Inc.        |                       | AMP28-3W             | SZ-WSR-A-002         | NCR                 | NCR                     |  |  |
| $\boxtimes$   | Power Meter  | Agilent               | E4416A               | SZ-WSR-M-007         | 2024/01/30          | 2025/01/29              |  |  |
| $\boxtimes$   | Power Sensor Agilent                                   |                       | 8481H                | SZ-WSR-M-008         | 2024/01/30          | 2025/01/29              |  |  |
| $\boxtimes$   | Power Sensor R&S                                       |                       | NRP-Z92              | P-Z92 SZ-WSR-M-009   |                     | 2025/01/29              |  |  |
| $\boxtimes$   | Attenuator   | SHX                   | TS2-3dB              | SZ-WSR-A-012         | NCR                 | NCR                     |  |  |
| $\boxtimes$   | Humidity and Temperature Indicator CHIGAO              |                       | HTC-1                | SZ-WSR-M-011         | 2024/5/28           | 2025/5/27               |  |  |
|   | SAM PHANTOM  | SPEAG                 | QDOVA001BB           | 1913                 | N/A                 | N/A                     |  |  |



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|             | (ELI4 v4.0)               |            |            |                  |     |     |
|-------------|---------------------------|------------|------------|------------------|-----|-----|
| $\boxtimes$ | ROBOT KRC                 | SPEAG      | CS8        | SP1/D/211/421/00 | N/A | N/A |
| $\boxtimes$ | LIQUID<br>CALIBRATION KIT | ANTENNESSA | 41/05 OCP9 | 00425167         | N/A | N/A |

Note: All the equipments are within the valid period when the tests are performed.



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### 11 Calibration certificate

Please see the Appendix C

## 12 Photographs

Please see the Appendix D

**Appendix A: Detailed System Check Results** 

**Appendix B: Detailed Test Results** 

**Appendix C: Calibration certificate** 

**Appendix D: Photographs** 

---END---



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