



FCC SAR Test Report

Report No. : SA140528C12E
Applicant : ASUSTeK COMPUTER INC.
Address : 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN
Product : ASUS Tablet
FCC ID : MSQME936 (WWAN)
 MSQ-T100TAL (WLAN)
Brand : ASUS
Model No. : T100TAL/H100TAL/R104TAL
Standards : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2003
 IEEE 1528a-2005 / KDB 865664 D01 v01r03 / KDB 248227 D01 v01r02
 KDB 447498 D01 v05r0 / KDB 616217 D04 v01r01 / KDB 941225 D01 v02
 KDB 941225 D02 v02r02 / KDB 941225 D03 v01 / KDB 941225 D05 v02r03
Sample Received Date : Jul. 14, 2014
Date of Testing : Aug. 25, 2014 ~ Nov. 03, 2014

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample’s SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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Table of Contents

Release Control Record 3

1. Summary of Maximum SAR Value 4

2. Description of Equipment Under Test 5

3. SAR Measurement System 7

 3.1 Definition of Specific Absorption Rate (SAR) 7

 3.2 SPEAG DASY System 7

 3.2.1 Robot..... 8

 3.2.2 Probes..... 9

 3.2.3 Data Acquisition Electronics (DAE) 9

 3.2.4 Phantoms 10

 3.2.5 Device Holder..... 11

 3.2.6 System Validation Dipoles 11

 3.2.7 Tissue Simulating Liquids..... 12

 3.3 SAR System Verification 15

 3.4 SAR Measurement Procedure 16

 3.4.1 Area & Zoom Scan Procedure 16

 3.4.2 Volume Scan Procedure..... 16

 3.4.3 Power Drift Monitoring..... 17

 3.4.4 Spatial Peak SAR Evaluation 17

 3.4.5 SAR Averaged Methods 17

4. SAR Measurement Evaluation 18

 4.1 EUT Configuration and Setting..... 18

 4.2 EUT Testing Position 20

 4.3 Tissue Verification 23

 4.4 System Validation..... 23

 4.5 System Verification..... 24

 4.6 Maximum Output Power..... 25

 4.6.1 Maximum Conducted Power 25

 4.6.2 Measured Conducted Power Result..... 27

 4.7 SAR Testing Results 43

 4.7.1 SAR Results for Body..... 43

 4.7.2 SAR Measurement Variability..... 47

 4.7.3 Simultaneous Multi-band Transmission Evaluation 48

5. Calibration of Test Equipment..... 73

6. Measurement Uncertainty..... 74

7. Information on the Testing Laboratories..... 76

Appendix A. SAR Plots of System Verification

Appendix B. SAR Plots of SAR Measurement

Appendix C. Calibration Certificate for Probe and Dipole

Appendix D. Photographs of EUT and Setup



FCC SAR Test Report

1. Summary of Maximum SAR Value

| Equipment Class | Mode | Highest Reported Body SAR _{1g} (W/kg) |
|---------------------------------------|-----------|--|
| PCB | GSM850 | 0.70 |
| | GSM1900 | 1.19 |
| | WCDMA II | 1.18 |
| | WCDMA IV | 1.19 |
| | WCDMA V | 0.60 |
| | LTE 2 | 1.17 |
| | LTE 4 | 1.20 |
| | LTE 5 | 0.63 |
| | LTE 7 | 0.94 |
| | LTE 13 | 0.84 |
| LTE 17 | 0.99 | |
| DTS | 2.4G WLAN | 0.95 |
| | 5.8G WLAN | 1.03 |
| NII | 5.2G WLAN | 0.16 |
| | 5.3G WLAN | 0.39 |
| | 5.6G WLAN | 1.15 |
| DSS | Bluetooth | N/A |
| Highest Simultaneous Transmission SAR | | Body (W/kg) |
| PCB+DTS | | 1.58 |
| PCB+NII | | 1.56 |
| PCB+DSS | | 1.46 |

Note:

- The SAR limit (**Head & Body: SAR_{1g} 1.6 W/kg**) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.



FCC SAR Test Report

2. Description of Equipment Under Test

| | |
|--|--|
| EUT Type | ASUS Tablet |
| FCC ID | MSQME936 |
| Brand Name | ASUS |
| Model Name | T100TAL/H100TAL/R104TAL |
| Tx Frequency Bands (Unit: MHz) | GSM850 : 824.2 ~ 848.8 GSM1900 : 1850.2 ~ 1909.8 WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band IV : 1712.4 ~ 1752.6 WCDMA Band V : 826.4 ~ 846.6 LTE Band 2 : 1850.7 ~ 1909.3 (1.4M), 1851.5 ~ 1908.5 (3M), 1852.5 ~ 1907.5 (5M), 1855 ~ 1905 (10M), 1857.5 ~ 1902.5 (15M), 1860 ~ 1900 (20M) LTE Band 4 : 1710.7 ~ 1754.3 (1.4M), 1711.5 ~ 1753.5 (3M), 1712.5 ~ 1752.5 (5M), 1715 ~ 1750 (10M), 1717.5 ~ 1747.5 (15M), 1720 ~ 1745 (20M) LTE Band 5 : 824.7 ~ 848.3 (1.4M), 825.5 ~ 847.5 (3M), 826.5 ~ 846.5 (5M), 829 ~ 844 (10M) LTE Band 7 : 2502.5 ~ 2567.5 (5M), 2505 ~ 2565 (10M), 2507.5 ~ 2562.5 (15M), 2510 ~ 2560 (20M) LTE Band 13 : 779.5 ~ 784.5 (5M), 782 (10M) LTE Band 17 : 706.5 ~ 713.5 (5M), 709 ~ 711 (10M) WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 Bluetooth : 2402 ~ 2480 |
| Uplink Modulations | GPRS : GMSK EDGE : 8PSK WCDMA : QPSK LTE : QPSK, 16QAM 802.11b : DSSS 802.11a/g/n : OFDM Bluetooth : GFSK |
| Maximum Tune-up Conducted Power (Unit: dBm) | GSM850 : 33.5 GSM1900 : 30.5 WCDMA Band II : 24.5 WCDMA Band IV : 24.5 WCDMA Band V : 24.5 LTE Band 2 : 24.0 LTE Band 4 : 24.0 LTE Band 5 : 24.0 LTE Band 7 : 24.0 LTE Band 13 : 24.0 LTE Band 17 : 24.0 WLAN 2.4G : 17.0 WLAN 5.2G : 12.0 WLAN 5.3G : 12.0 WLAN 5.6G : 13.5 WLAN 5.8G : 13.0 Bluetooth : 8.0 |
| Antenna Type | PIFA Antenna |
| EUT Stage | Identical Prototype |

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

List of Accessory:

| | | |
|------------------|---------------------|---|
| AC Adapter 1 | Brand Name | ASUS |
| | Model Name | AD2022320 |
| | Power Rating | I/P:100-240Vac, 50/60Hz, 0.5A; O/P: 5Vdc, 2A or 9Vdc, 2A |
| AC Adapter 2 | Brand Name | ASUS |
| | Model Name | W12-010N3A |
| | Power Rating | I/P:100-240Vac, 50/60Hz, 0.3A; O/P: 5Vdc, 2A |
| AC Adapter 3 | Brand Name | ASUS |
| | Model Name | AD897320 |
| | Power Rating | I/P:100-240Vac, 50/60Hz, 0.3A; O/P: 5Vdc, 2A |
| AC Adapter 4 | Brand Name | ASUS |
| | Model Name | AD835M1 |
| | Power Rating | I/P:100-240Vac, 50/60Hz, 0.3A; O/P: 5Vdc, 2A |
| Battery 1 | Brand Name | ASUS |
| | Model Name | C12N1406 |
| | Power Rating | 3.85Vdc, 31Wh |
| | Manufacture | CELXPRT ENERGY CORP |
| Battery 2 | Type | Li-ion |
| | Brand Name | ASUS |
| | Model Name | C12N1406 |
| | Power Rating | 3.85Vdc, 31Wh |
| WWAN Module | Manufacture | SIMPLO TECHNOLOGY CO LTD |
| | Type | Li-ion |
| | Brand Name | HUAWEI |
| | Model Name | ME936 |
| WLAN / BT Module | Remark | include GPS |
| | Brand Name | AMPAK |
| | Model Name | AP6234AL (AP6234ALNS) |
| | Remark | Chip factory: BROADCOM / BCM43340XKUBC |

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY4/5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

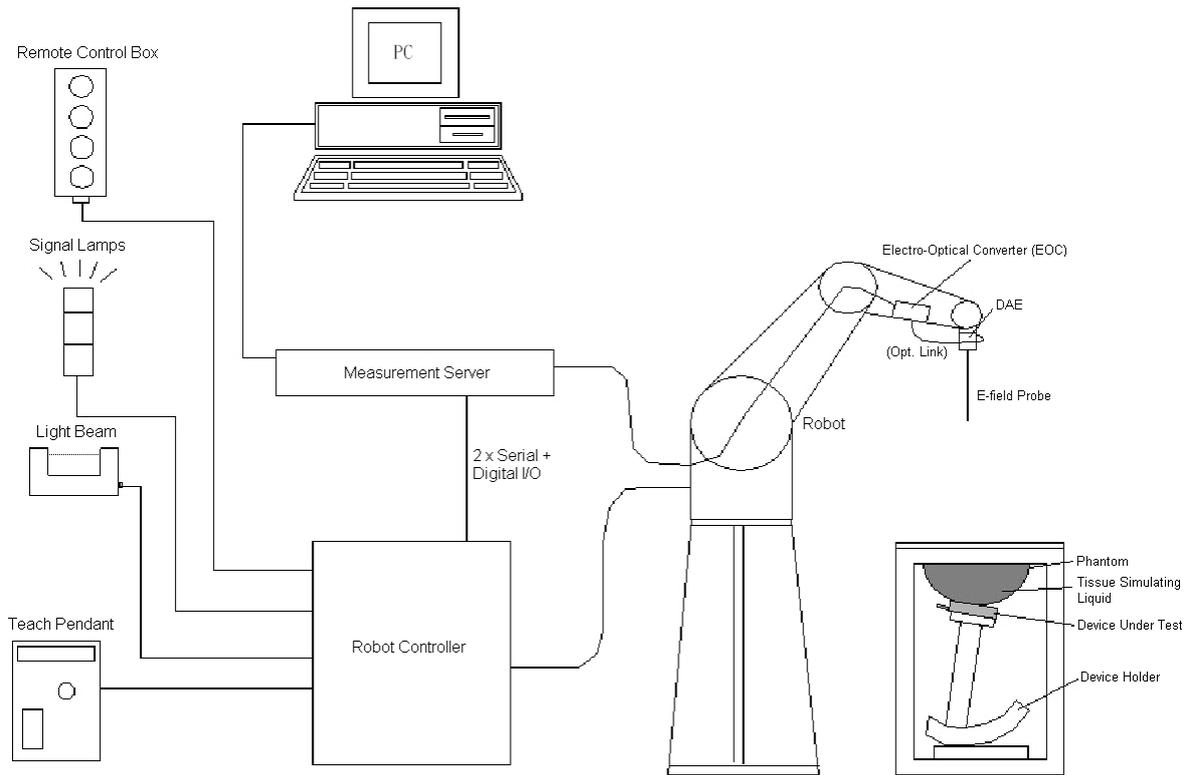


Fig-3.1 DASY System Setup

3.2.1 Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY4: CS7MB; DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



Fig-3.2 DASY4



Fig-3.3 DASY5

FCC SAR Test Report

3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

| | | |
|----------------------|--|---|
| Model | EX3DV4 |  |
| Construction | Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE). | |
| Frequency | 10 MHz to 6 GHz Linearity: ± 0.2 dB | |
| Directivity | ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis) | |
| Dynamic Range | 10 μ W/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/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 | |

| | | |
|----------------------|---|--|
| Model | ES3DV3 |  |
| Construction | Symmetrical design with triangular core. Interleaved sensors. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE). | |
| Frequency | 10 MHz to 4 GHz Linearity: ± 0.2 dB | |
| Directivity | ± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis) | |
| Dynamic Range | 5 μ W/g to 100 mW/g Linearity: ± 0.2 dB | |
| Dimensions | Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm | |

3.2.3 Data Acquisition Electronics (DAE)

| | | |
|-----------------------------|---|---|
| Model | DAE3, DAE4 |  |
| Construction | Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop. | |
| Measurement Range | -100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV) | |
| Input Offset Voltage | < 5 μ V (with auto zero) | |
| Input Bias Current | < 50 fA | |
| Dimensions | 60 x 60 x 68 mm | |

FCC SAR Test Report

3.2.4 Phantoms

| | | |
|------------------------|---|---|
| Model | Twin SAM |  |
| Construction | 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. | |
| Material | Vinylester, glass fiber reinforced (VE-GF) | |
| Shell Thickness | 2 ± 0.2 mm (6 ± 0.2 mm at ear point) | |
| Dimensions | Length: 1000 mm Width: 500 mm Height: adjustable feet | |
| Filling Volume | approx. 25 liters | |

| | | |
|------------------------|---|--|
| Model | ELI |  |
| Construction | 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. | |
| Material | Vinylester, glass fiber reinforced (VE-GF) | |
| Shell Thickness | 2.0 ± 0.2 mm (bottom plate) | |
| Dimensions | Major axis: 600 mm Minor axis: 400 mm | |
| Filling Volume | approx. 30 liters | |

FCC SAR Test Report

3.2.5 Device Holder

| | | |
|---------------------|---|---|
| Model | Mounting Device |  |
| Construction | In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). | |
| Material | POM | |

| | | |
|---------------------|---|---|
| Model | Laptop Extensions Kit |  |
| Construction | Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner. | |
| Material | POM, Acrylic glass, Foam | |

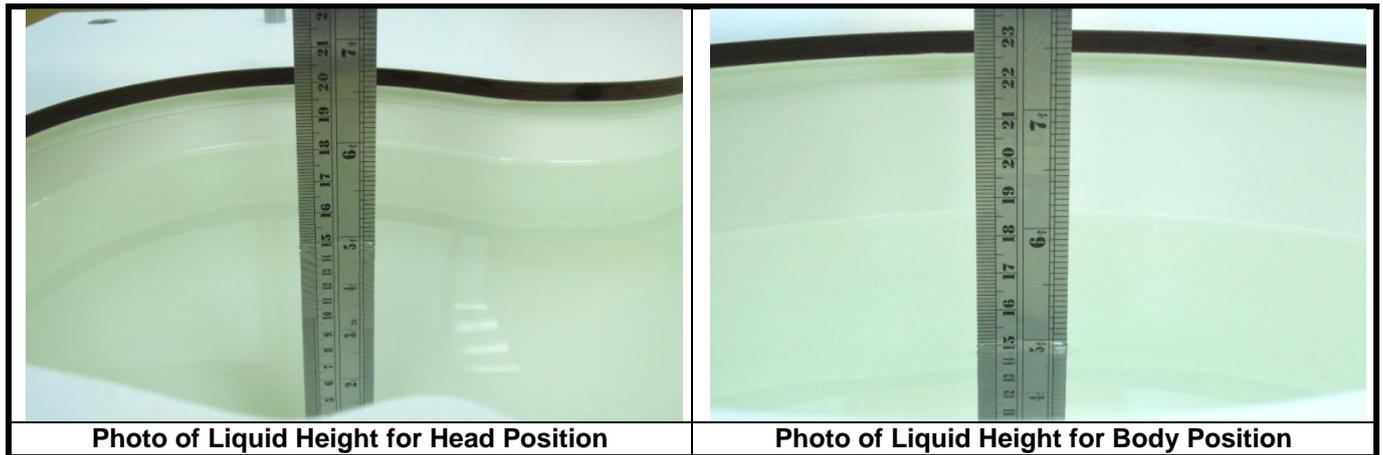
3.2.6 System Validation Dipoles

| | | |
|-------------------------|--|---|
| Model | D-Serial |  |
| Construction | Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions. | |
| Frequency | 750 MHz to 5800 MHz | |
| Return Loss | > 20 dB | |
| Power Capability | > 100 W (f < 1GHz), > 40 W (f > 1GHz) | |

FCC SAR Test Report

3.2.7 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.



The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528, and KDB 865664 D01 Appendix A. For the body tissue simulating liquids, the dielectric properties are defined in KDB 865664 D01 Appendix A. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.



FCC SAR Test Report

Table-3.1 Targets of Tissue Simulating Liquid

| Frequency (MHz) | Target Permittivity | Range of ±5% | Target Conductivity | Range of ±5% |
|-----------------|---------------------|--------------|---------------------|--------------|
| For Head | | | | |
| 750 | 41.9 | 39.8 ~ 44.0 | 0.89 | 0.85 ~ 0.93 |
| 835 | 41.5 | 39.4 ~ 43.6 | 0.90 | 0.86 ~ 0.95 |
| 900 | 41.5 | 39.4 ~ 43.6 | 0.97 | 0.92 ~ 1.02 |
| 1450 | 40.5 | 38.5 ~ 42.5 | 1.20 | 1.14 ~ 1.26 |
| 1640 | 40.3 | 38.3 ~ 42.3 | 1.29 | 1.23 ~ 1.35 |
| 1750 | 40.1 | 38.1 ~ 42.1 | 1.37 | 1.30 ~ 1.44 |
| 1800 | 40.0 | 38.0 ~ 42.0 | 1.40 | 1.33 ~ 1.47 |
| 1900 | 40.0 | 38.0 ~ 42.0 | 1.40 | 1.33 ~ 1.47 |
| 2000 | 40.0 | 38.0 ~ 42.0 | 1.40 | 1.33 ~ 1.47 |
| 2300 | 39.5 | 37.5 ~ 41.5 | 1.67 | 1.59 ~ 1.75 |
| 2450 | 39.2 | 37.2 ~ 41.2 | 1.80 | 1.71 ~ 1.89 |
| 2600 | 39.0 | 37.1 ~ 41.0 | 1.96 | 1.86 ~ 2.06 |
| 3500 | 37.9 | 36.0 ~ 39.8 | 2.91 | 2.76 ~ 3.06 |
| 5200 | 36.0 | 34.2 ~ 37.8 | 4.66 | 4.43 ~ 4.89 |
| 5300 | 35.9 | 34.1 ~ 37.7 | 4.76 | 4.52 ~ 5.00 |
| 5500 | 35.6 | 33.8 ~ 37.4 | 4.96 | 4.71 ~ 5.21 |
| 5600 | 35.5 | 33.7 ~ 37.3 | 5.07 | 4.82 ~ 5.32 |
| 5800 | 35.3 | 33.5 ~ 37.1 | 5.27 | 5.01 ~ 5.53 |
| For Body | | | | |
| 750 | 55.5 | 52.7 ~ 58.3 | 0.96 | 0.91 ~ 1.01 |
| 835 | 55.2 | 52.4 ~ 58.0 | 0.97 | 0.92 ~ 1.02 |
| 900 | 55.0 | 52.3 ~ 57.8 | 1.05 | 1.00 ~ 1.10 |
| 1450 | 54.0 | 51.3 ~ 56.7 | 1.30 | 1.24 ~ 1.37 |
| 1640 | 53.8 | 51.1 ~ 56.5 | 1.40 | 1.33 ~ 1.47 |
| 1750 | 53.4 | 50.7 ~ 56.1 | 1.49 | 1.42 ~ 1.56 |
| 1800 | 53.3 | 50.6 ~ 56.0 | 1.52 | 1.44 ~ 1.60 |
| 1900 | 53.3 | 50.6 ~ 56.0 | 1.52 | 1.44 ~ 1.60 |
| 2000 | 53.3 | 50.6 ~ 56.0 | 1.52 | 1.44 ~ 1.60 |
| 2300 | 52.9 | 50.3 ~ 55.5 | 1.81 | 1.72 ~ 1.90 |
| 2450 | 52.7 | 50.1 ~ 55.3 | 1.95 | 1.85 ~ 2.05 |
| 2600 | 52.5 | 49.9 ~ 55.1 | 2.16 | 2.05 ~ 2.27 |
| 3500 | 51.3 | 48.7 ~ 53.9 | 3.31 | 3.14 ~ 3.48 |
| 5200 | 49.0 | 46.6 ~ 51.5 | 5.30 | 5.04 ~ 5.57 |
| 5300 | 48.9 | 46.5 ~ 51.3 | 5.42 | 5.15 ~ 5.69 |
| 5500 | 48.6 | 46.2 ~ 51.0 | 5.65 | 5.37 ~ 5.93 |
| 5600 | 48.5 | 46.1 ~ 50.9 | 5.77 | 5.48 ~ 6.06 |
| 5800 | 48.2 | 45.8 ~ 50.6 | 6.00 | 5.70 ~ 6.30 |

FCC SAR Test Report

The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

| Tissue Type | Bactericide | DGBE | HEC | NaCl | Sucrose | Triton X-100 | Water | Diethylene Glycol Mono-hexylether |
|-------------|-------------|------|-----|------|---------|--------------|-------|-----------------------------------|
| H750 | 0.2 | - | 0.2 | 1.5 | 56.0 | - | 42.1 | - |
| H835 | 0.2 | - | 0.2 | 1.5 | 57.0 | - | 41.1 | - |
| H900 | 0.2 | - | 0.2 | 1.4 | 58.0 | - | 40.2 | - |
| H1450 | - | 43.3 | - | 0.6 | - | - | 56.1 | - |
| H1640 | - | 45.8 | - | 0.5 | - | - | 53.7 | - |
| H1750 | - | 47.0 | - | 0.4 | - | - | 52.6 | - |
| H1800 | - | 44.5 | - | 0.3 | - | - | 55.2 | - |
| H1900 | - | 44.5 | - | 0.2 | - | - | 55.3 | - |
| H2000 | - | 44.5 | - | 0.1 | - | - | 55.4 | - |
| H2300 | - | 44.9 | - | 0.1 | - | - | 55.0 | - |
| H2450 | - | 45.0 | - | 0.1 | - | - | 54.9 | - |
| H2600 | - | 45.1 | - | 0.1 | - | - | 54.8 | - |
| H3500 | - | 8.0 | - | 0.2 | - | 20.0 | 71.8 | - |
| H5G | - | - | - | - | - | 17.2 | 65.5 | 17.3 |
| B750 | 0.2 | - | 0.2 | 0.8 | 48.8 | - | 50.0 | - |
| B835 | 0.2 | - | 0.2 | 0.9 | 48.5 | - | 50.2 | - |
| B900 | 0.2 | - | 0.2 | 0.9 | 48.2 | - | 50.5 | - |
| B1450 | - | 34.0 | - | 0.3 | - | - | 65.7 | - |
| B1640 | - | 32.5 | - | 0.3 | - | - | 67.2 | - |
| B1750 | - | 31.0 | - | 0.2 | - | - | 68.8 | - |
| B1800 | - | 29.5 | - | 0.4 | - | - | 70.1 | - |
| B1900 | - | 29.5 | - | 0.3 | - | - | 70.2 | - |
| B2000 | - | 30.0 | - | 0.2 | - | - | 69.8 | - |
| B2300 | - | 31.0 | - | 0.1 | - | - | 68.9 | - |
| B2450 | - | 31.4 | - | 0.1 | - | - | 68.5 | - |
| B2600 | - | 31.8 | - | 0.1 | - | - | 68.1 | - |
| B3500 | - | 28.8 | - | 0.1 | - | - | 71.1 | - |
| B5G | - | - | - | - | - | 10.7 | 78.6 | 10.7 |

3.3 SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.

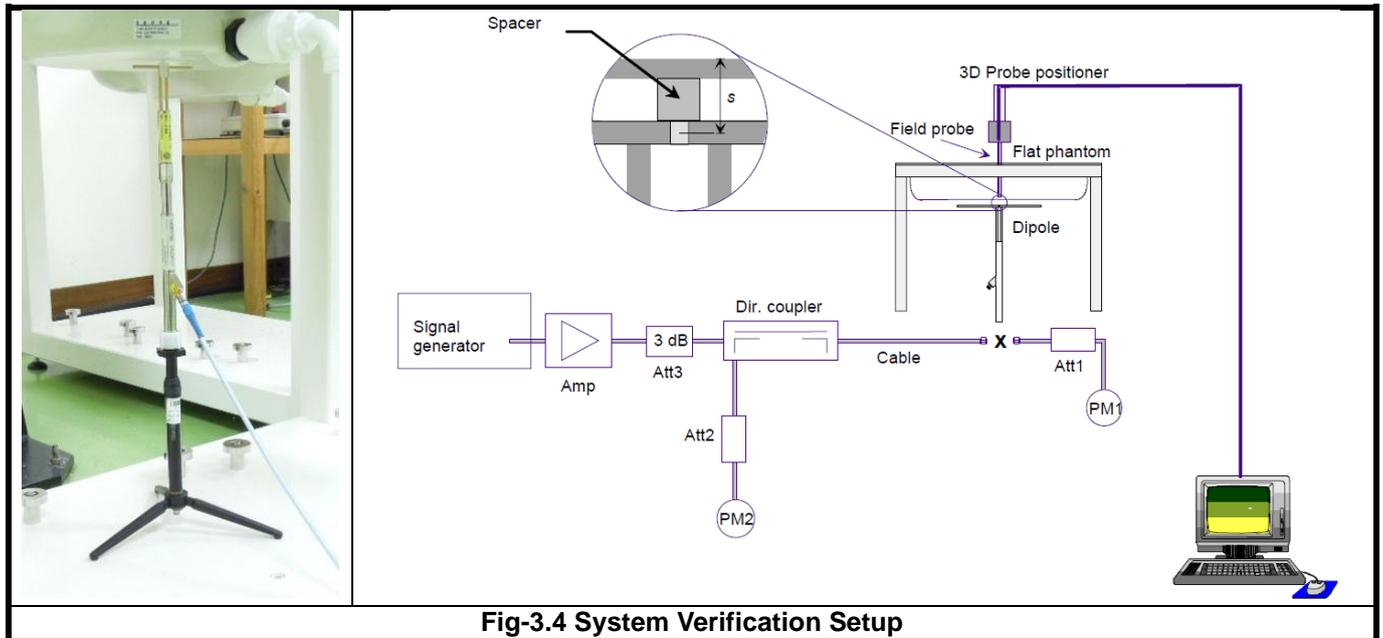


Fig-3.4 System Verification Setup

The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The power meter PM1 measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 3 GHz, 100 mW is used for 3.5 GHz to 6 GHz) at the dipole connector and the power meter PM2 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

3.4 SAR Measurement Procedure

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

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

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

3.4.1 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

| Items | <= 2 GHz | 2-3 GHz | 3-4 GHz | 4-5 GHz | 5-6 GHz |
|---------------------------------------|----------|----------|----------|----------|----------|
| Area Scan ($\Delta x, \Delta y$) | <= 15 mm | <= 12 mm | <= 12 mm | <= 10 mm | <= 10 mm |
| Zoom Scan ($\Delta x, \Delta y$) | <= 8 mm | <= 5 mm | <= 5 mm | <= 4 mm | <= 4 mm |
| Zoom Scan (Δz) | <= 5 mm | <= 5 mm | <= 4 mm | <= 3 mm | <= 2 mm |
| Zoom Scan Volume | >= 30 mm | >= 30 mm | >= 28 mm | >= 25 mm | >= 22 mm |

Note:

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of $\Delta x / \Delta y$ (2-3GHz: <= 8 mm, 3-4GHz: <= 7 mm, 4-6GHz: <= 5 mm) may be applied.

3.4.2 Volume Scan Procedure

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

FCC SAR Test Report

3.4.3 Power Drift Monitoring

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

3.4.4 Spatial Peak SAR Evaluation

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

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

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

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

3.4.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

This device supports WWAN, WLAN, Bluetooth capabilities. Because of the SAR issue, this device has designed with a proximity sensor which can trigger/not trigger power reduction for WWAN on EUT Rear Face and Top Side orientations for SAR compliance. Others RF capabilities (WLAN and BT) have no power reduction. The power levels for all wireless technologies and the power reduction please refer to section 4.6.1 of this report.

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 15 mm for EUT Rear Face and 16 mm for Top Side. The separation distance of 16 mm determined by the smallest triggering distance on Top Side is used to assess the tilt angle influence and the sensor does not release during ± 45 degree. Therefore, the smallest separation distance for tilt angle influence is 16 mm for Top Side. The details can be found in technical document. The conservative triggering distances based on the separation distance for the sensor triggered / not triggered as EUT with power reduction at 0 mm, and EUT without power reduction at 14 mm for EUT Rear Face and 15 mm for Top Side is used to test SAR.

The power reduction is depends on the proximity sensor input. For a steady SAR test, the power reduction was enabled/disabled manually by engineering software during SAR testing.

The EUT is a data transmitter device that contains one WWAN transmitter, and two WWAN antennas for receiving diversity. Confirming the LTE transmitter follows 3GPP standards, is category 3, FDD-LTE band 2/4 (BW 1.4/3/5/10/15/20 MHz), FDD-LTE band 5 (BW 1.4/3/5/10 MHz), FDD-LTE band 7 (BW 5/10/15/20 MHz), FDD-LTE band 13/17 (BW 5/10 MHz), supports QPSK / 16QAM modulations, and supports data transmission only. Tested per 3GPP 36.521 maximum transmit procedures for both QPSK / 16QAM.

LTE Maximum Power Reduction in accordance with 3GPP 36.101: Power Reduction in accordance to 3GPP is active all times during LTE operation.

| Modulation | Channel Bandwidth / RB Configurations | | | | | | LTE MPR Setting (dB) |
|------------|---------------------------------------|----------|----------|-----------|-----------|-----------|----------------------|
| | BW 1.4 MHz | BW 3 MHz | BW 5 MHz | BW 10 MHz | BW 15 MHz | BW 20 MHz | |
| QPSK | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | 1 |
| 16QAM | <= 5 | <= 4 | <= 8 | <= 12 | <= 16 | <= 18 | 1 |
| 16QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | 2 |

Note: MPR is according to the standard and implemented in the circuit (mandatory).

In addition, the device is compliant with A-MPR requirements defined in 36.101 section 6.2.4 that may be required to meet 3GPP Adjacent Channel Leakage Ratio (“ACLR”) requirements. A-MPR was disabled for all FCC compliance testing.

FCC SAR Test Report

The simultaneous transmission possibilities are listed as below.

| Simultaneous Tx Combination | RF Configuration |
|-----------------------------|----------------------------------|
| 1 | GSM850 (Data) + WLAN (Data) |
| 2 | GSM1900 (Data) + WLAN (Data) |
| 3 | WCDMA II (Data) + WLAN (Data) |
| 4 | WCDMA IV (Data) + WLAN (Data) |
| 5 | WCDMA V (Data) + WLAN (Data) |
| 6 | LTE Band 2 (Data) + WLAN (Data) |
| 7 | LTE Band 4 (Data) + WLAN (Data) |
| 8 | LTE Band 5 (Data) + WLAN (Data) |
| 9 | LTE Band 7 (Data) + WLAN (Data) |
| 10 | LTE Band 13 (Data) + WLAN (Data) |
| 11 | LTE Band 17 (Data) + WLAN (Data) |
| 12 | GSM850 (Data) + BT (Data) |
| 13 | GSM1900 (Data) + BT (Data) |
| 14 | WCDMA II (Data) + BT (Data) |
| 15 | WCDMA IV (Data) + BT (Data) |
| 16 | WCDMA V (Data) + BT (Data) |
| 17 | LTE Band 2 (Data) + BT (Data) |
| 18 | LTE Band 4 (Data) + BT (Data) |
| 19 | LTE Band 5 (Data) + BT (Data) |
| 20 | LTE Band 7 (Data) + BT (Data) |
| 21 | LTE Band 13 (Data) + BT (Data) |
| 22 | LTE Band 17 (Data) + BT (Data) |

Note :

1. This device does not support voice transmission capability.
2. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
3. WLAN and BT cannot transmit at the same time.

For WWAN SAR testing, the EUT was linked and controlled by base station emulator (Agilent E5515C is used for GSM/WCDMA, and Anritsu MT8820C is used for LTE). Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing.

For GSM850, the power control level is set to 5. For GPRS850 (GMSK, CS1), the power control level is set to 5. For EDGE850 (8PSK:MCS9), the power control level is set to 8. For GSM1900, the power control level is set to 0. For GPRS1900 (GMSK, CS1), the power control level is set to 0. For EDGE1900 (8PSK:MCS9), the power control level is set to 2.

FCC SAR Test Report

For WCDMA, body SAR is tested under 12.2k RMC mode with power control set all up bits. SAR for AMR is not required since its power is less than 1/4 dB higher than RMC. SAR for HSDPA/HSUPA is not required since its power is less than 1/4 dB higher than RMC without HSDPA/HSUPA and SAR for 12.2 kbps RMC is less than 75% of the SAR limit (1.2 W/kg).

For LTE, set the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB in base station simulator. When the EUT has registered and communicated to base station simulator, set the simulator to make EUT transmitting the maximum radiated power. The steps for system simulator (Anritsu MT8820C) setup are as below.

1. Press the "Std" button to select "LTE 22.20S" function
2. Choose the "Screen Select" item to "Fundamental Measurement"
3. Enter the "Common" item
4. Set the Operating Band
5. Set the Channel Bandwidth
6. Set the UL Channel & Frequency
7. Set the Modulation
8. Set the RB number and RB shift
9. Press "Start Call" button when EUT register to the system simulator
10. Set the TX-1 Max. Power to make the EUT transmit maximum output power

For WLAN SAR testing, the EUT has installed WLAN engineering testing software which can provide continuous transmitting RF signal. According to KDB 248227 D01, WLAN SAR should tested at the lowest data rate, and testing at higher data rate is not required when the maximum average output power is less than 1/4 dB higher than those measured at the lowest data rate. Since the WLAN power at lowest data rate has highest output power, WLAN SAR for this device was performed at the lowest data rate.

4.2 EUT Testing Position

For laptop PC mode, according to KDB 616217 D04, SAR testing for laptop PC is required for bottom surface.

For tablet PC mode, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

FCC SAR Test Report

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. For the test separation distance ≤ 50 mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. For the test separation distance > 50 mm, and the frequency at 100 MHz to 1500 MHz

$$\left[(\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times \left(\frac{f_{(MHz)}}{150} \right) \right]_{(mW)}$$

3. For the test separation distance > 50 mm, and the frequency at > 1500 MHz to 6 GHz

$$[(\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times 10]_{(mW)}$$

<For Laptop PC Mode>

| Mode | Max. Tune-up Power (dBm) | Max. Tune-up Power (mW) | Bottom Surface | | |
|-----------|--------------------------|-------------------------|----------------------|-------------------|----------------------|
| | | | Ant. to Surface (mm) | Calculated Result | Require SAR Testing? |
| GSM 850 | 26.24 | 421 | 165 | 814 mW | No |
| GSM 1900 | 23.24 | 211 | 165 | 1259 mW | No |
| WCDMA II | 24.5 | 282 | 165 | 1259 mW | No |
| WCDMA IV | 24.5 | 282 | 165 | 1263 mW | No |
| WCDMA V | 24.5 | 282 | 165 | 812 mW | No |
| LTE 2 | 24.0 | 251 | 165 | 1259 mW | No |
| LTE 4 | 24.0 | 251 | 165 | 1263 mW | No |
| LTE 5 | 24.0 | 251 | 165 | 812 mW | No |
| LTE 7 | 24.0 | 251 | 165 | 1245 mW | No |
| LTE 13 | 24.0 | 251 | 165 | 771 mW | No |
| LTE 17 | 24.0 | 251 | 165 | 725 mW | No |
| WLAN 2.4G | 17.0 | 50 | 165 | 1246 mW | No |
| WLAN 5.2G | 12.0 | 16 | 165 | 1216 mW | No |
| WLAN 5.3G | 12.0 | 16 | 165 | 1215 mW | No |
| WLAN 5.6G | 13.5 | 22 | 165 | 1213 mW | No |
| WLAN 5.8G | 13.0 | 20 | 165 | 1212 mW | No |
| BT | 8.0 | 6 | 165 | 1245 mW | No |

Note:

- When separation distance > 50 mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.
- Since GSM has multi-slot operation, the maximum tune-up power shown in above table for GSM is source-based time-averaged maximum power.



FCC SAR Test Report

A D T

<For Tablet PC Mode>

| Mode | Max. Tune-up Power (dBm) | Max. Tune-up Power (mW) | Rear Face | | | Top Side | | | Bottom Side | | | Left Side | | | Right Side | | |
|-----------|--------------------------|-------------------------|----------------------|--------------------------|----------------------|----------------------|--------------------------|----------------------|----------------------|--------------------------|----------------------|----------------------|--------------------------|----------------------|----------------------|--------------------------|----------------------|
| | | | Ant. to Surface (mm) | Exclusion Threshold (mW) | Require SAR Testing? | Ant. to Surface (mm) | Exclusion Threshold (mW) | Require SAR Testing? | Ant. to Surface (mm) | Exclusion Threshold (mW) | Require SAR Testing? | Ant. to Surface (mm) | Exclusion Threshold (mW) | Require SAR Testing? | Ant. to Surface (mm) | Exclusion Threshold (mW) | Require SAR Testing? |
| GSM 850 | 26.24 | 421 | 5 | 77.6 | Yes | 3 | 77.6 | Yes | 155 | 757 mW | No | 37 | 10.5 | Yes | 142 | 684 mW | No |
| GSM 1900 | 23.24 | 211 | 5 | 58.3 | Yes | 3 | 58.3 | Yes | 155 | 1159 mW | No | 37 | 7.9 | Yes | 142 | 1029 mW | No |
| WCDMA II | 24.5 | 282 | 5 | 77.9 | Yes | 3 | 77.9 | Yes | 155 | 1159 mW | No | 37 | 10.5 | Yes | 142 | 1029 mW | No |
| WCDMA IV | 24.5 | 282 | 5 | 74.7 | Yes | 3 | 74.7 | Yes | 155 | 1163 mW | No | 37 | 10.1 | Yes | 142 | 1033 mW | No |
| WCDMA V | 24.5 | 282 | 5 | 51.9 | Yes | 3 | 51.9 | Yes | 155 | 756 mW | No | 37 | 7 | Yes | 142 | 682 mW | No |
| LTE 2 | 24.0 | 251 | 5 | 69.3 | Yes | 3 | 69.3 | Yes | 155 | 1159 mW | No | 37 | 9.4 | Yes | 142 | 1029 mW | No |
| LTE 4 | 24.0 | 251 | 5 | 66.5 | Yes | 3 | 66.5 | Yes | 155 | 1163 mW | No | 37 | 9 | Yes | 142 | 1033 mW | No |
| LTE 5 | 24.0 | 251 | 5 | 46.2 | Yes | 3 | 46.2 | Yes | 155 | 756 mW | No | 37 | 6.2 | Yes | 142 | 682 mW | No |
| LTE 7 | 24.0 | 251 | 5 | 80.4 | Yes | 3 | 80.4 | Yes | 155 | 1145 mW | No | 37 | 10.9 | Yes | 142 | 1015 mW | No |
| LTE 13 | 24.0 | 251 | 5 | 44.5 | Yes | 3 | 44.5 | Yes | 155 | 719 mW | No | 37 | 6 | Yes | 142 | 651 mW | No |
| LTE 17 | 24.0 | 251 | 5 | 42.4 | Yes | 3 | 42.4 | Yes | 155 | 677 mW | No | 37 | 5.7 | Yes | 142 | 615 mW | No |
| WLAN 2.4G | 17.0 | 50 | 5 | 15.7 | Yes | 5 | 15.7 | Yes | 155 | 1146 mW | No | 196 | 1556 mW | No | 18 | 4.4 | Yes |
| WLAN 5.2G | 12.0 | 16 | 5 | 7.3 | Yes | 5 | 7.3 | Yes | 155 | 1116 mW | No | 196 | 1526 mW | No | 18 | 2 | No |
| WLAN 5.3G | 12.0 | 16 | 5 | 7.4 | Yes | 5 | 7.4 | Yes | 155 | 1115 mW | No | 196 | 1525 mW | No | 18 | 2.1 | No |
| WLAN 5.6G | 13.5 | 22 | 5 | 10.5 | Yes | 5 | 10.5 | Yes | 155 | 1113 mW | No | 196 | 1523 mW | No | 18 | 2.9 | No |
| WLAN 5.8G | 13.0 | 20 | 5 | 9.7 | Yes | 5 | 9.7 | Yes | 155 | 1112 mW | No | 196 | 1522 mW | No | 18 | 2.7 | No |
| BT | 8.0 | 6 | 5 | 1.9 | No | 5 | 1.9 | No | 155 | 1145 mW | No | 196 | 1555 mW | No | 18 | 0.5 | No |

Note:

1. When separation distance ≤ 50 mm and the calculated result shown in above table is ≤ 3.0 , the SAR testing exclusion is applied.
2. When separation distance > 50 mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.
3. Since GSM has multi-slot operation, the maximum tune-up power shown in above table for GSM is source-based time-averaged maximum power.

FCC SAR Test Report

4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

| Test Date | Tissue Type | Frequency (MHz) | Liquid Temp. (°C) | Measured Conductivity (σ) | Measured Permittivity (ϵ_r) | Target Conductivity (σ) | Target Permittivity (ϵ_r) | Conductivity Deviation (%) | Permittivity Deviation (%) |
|---------------|-------------|-----------------|-------------------|------------------------------------|--|----------------------------------|--------------------------------------|----------------------------|----------------------------|
| Sep. 06, 2014 | Body | 750 | 20.2 | 0.966 | 55.259 | 0.96 | 55.5 | 0.63 | -0.43 |
| Sep. 06, 2014 | Body | 835 | 20.2 | 0.974 | 55.307 | 0.97 | 55.2 | 0.41 | 0.19 |
| Sep. 05, 2014 | Body | 1750 | 20.9 | 1.495 | 52.214 | 1.49 | 53.4 | 0.34 | -2.22 |
| Nov. 03, 2014 | Body | 1750 | 21.4 | 1.499 | 52.347 | 1.49 | 53.4 | 0.60 | -1.97 |
| Sep. 05, 2014 | Body | 1900 | 20.8 | 1.557 | 54.485 | 1.52 | 53.3 | 2.43 | 2.22 |
| Aug. 25, 2014 | Body | 2450 | 21.7 | 1.970 | 51.396 | 1.95 | 52.7 | 1.03 | -2.47 |
| Oct. 01, 2014 | Body | 2600 | 21.3 | 2.211 | 52.397 | 2.16 | 52.5 | 2.36 | -0.20 |
| Aug. 25, 2014 | Body | 5200 | 21.7 | 5.339 | 47.479 | 5.30 | 49.0 | 0.74 | -3.10 |
| Aug. 25, 2014 | Body | 5300 | 21.7 | 5.473 | 47.306 | 5.42 | 48.9 | 0.98 | -3.26 |
| Aug. 25, 2014 | Body | 5600 | 21.7 | 5.903 | 46.754 | 5.77 | 48.5 | 2.31 | -3.60 |
| Aug. 25, 2014 | Body | 5800 | 21.7 | 6.190 | 46.373 | 6.00 | 48.2 | 3.17 | -3.79 |

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within $\pm 5\%$ of the target values. Liquid temperature during the SAR testing must be within $\pm 2^\circ\text{C}$.

4.4 System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.

| Test Date | Probe S/N | Calibration Point | | Measured Conductivity (σ) | Measured Permittivity (ϵ_r) | Validation for CW | | | Validation for Modulation | | |
|---------------|-----------|-------------------|------|------------------------------------|--|-------------------|-----------------|----------------|---------------------------|-------------|------|
| | | | | | | Sensitivity Range | Probe Linearity | Probe Isotropy | Modulation Type | Duty Factor | PAR |
| Sep. 06, 2014 | 3971 | Body | 750 | 0.966 | 55.259 | Pass | Pass | Pass | N/A | N/A | N/A |
| Sep. 06, 2014 | 3971 | Body | 835 | 0.974 | 55.307 | Pass | Pass | Pass | GMSK | Pass | N/A |
| Sep. 05, 2014 | 3971 | Body | 1750 | 1.495 | 52.214 | Pass | Pass | Pass | N/A | N/A | N/A |
| Nov. 03, 2014 | 3650 | Body | 1750 | 1.499 | 52.347 | Pass | Pass | Pass | N/A | N/A | N/A |
| Sep. 05, 2014 | 3971 | Body | 1900 | 1.557 | 54.485 | Pass | Pass | Pass | GMSK | Pass | N/A |
| Aug. 25, 2014 | 3971 | Body | 2450 | 1.970 | 51.396 | Pass | Pass | Pass | OFDM | N/A | Pass |
| Oct. 01, 2014 | 3650 | Body | 2600 | 2.211 | 52.397 | Pass | Pass | Pass | N/A | N/A | N/A |
| Aug. 25, 2014 | 3971 | Body | 5200 | 5.339 | 47.479 | Pass | Pass | Pass | OFDM | N/A | Pass |
| Aug. 25, 2014 | 3971 | Body | 5300 | 5.473 | 47.306 | Pass | Pass | Pass | OFDM | N/A | Pass |
| Aug. 25, 2014 | 3971 | Body | 5600 | 5.903 | 46.754 | Pass | Pass | Pass | OFDM | N/A | Pass |
| Aug. 25, 2014 | 3971 | Body | 5800 | 6.190 | 46.373 | Pass | Pass | Pass | OFDM | N/A | Pass |

FCC SAR Test Report

4.5 System Verification

The measuring result for system verification is tabulated as below.

| Test Date | Mode | Frequency (MHz) | 1W Target SAR-1g (W/kg) | Measured SAR-1g (W/kg) | Normalized to 1W SAR-1g (W/kg) | Deviation (%) | Dipole S/N | Probe S/N | DAE S/N |
|---------------|------|-----------------|-------------------------|------------------------|--------------------------------|---------------|------------|-----------|---------|
| Sep. 06, 2014 | Body | 750 | 8.81 | 2.29 | 9.16 | 3.97 | 1013 | 3971 | 1431 |
| Sep. 06, 2014 | Body | 835 | 9.69 | 2.42 | 9.68 | -0.10 | 4d121 | 3971 | 1431 |
| Sep. 05, 2014 | Body | 1750 | 36.90 | 9.29 | 37.16 | 0.70 | 1055 | 3971 | 1431 |
| Nov. 03, 2014 | Body | 1750 | 36.90 | 9.65 | 38.60 | 4.61 | 1055 | 3971 | 1431 |
| Sep. 05, 2014 | Body | 1900 | 41.00 | 9.89 | 39.56 | -3.51 | 5d036 | 3971 | 1431 |
| Aug. 25, 2014 | Body | 2450 | 49.60 | 12.60 | 50.40 | 1.61 | 737 | 3971 | 1431 |
| Oct. 01, 2014 | Body | 2600 | 55.80 | 13.80 | 55.20 | -1.08 | 1020 | 3650 | 1277 |
| Aug. 25, 2014 | Body | 5200 | 73.00 | 7.71 | 77.10 | 5.62 | 1019 | 3971 | 1431 |
| Aug. 25, 2014 | Body | 5300 | 74.60 | 7.32 | 73.20 | -1.88 | 1019 | 3971 | 1431 |
| Aug. 25, 2014 | Body | 5600 | 79.90 | 7.65 | 76.50 | -4.26 | 1019 | 3971 | 1431 |
| Aug. 25, 2014 | Body | 5800 | 73.40 | 7.03 | 70.30 | -4.22 | 1019 | 3971 | 1431 |

Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

FCC SAR Test Report

4.6 Maximum Output Power

4.6.1 Maximum Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

| Mode | GSM850 (without Power Reduction) | GSM850 (with Power Reduction) | Power Reduction (dB) |
|--------------------------|-------------------------------------|----------------------------------|-------------------------|
| GPRS 8 (GMSK, 1 Uplink) | 33.50 | 24.50 | 9.00 |
| GPRS 10 (GMSK, 2 Uplink) | 31.50 | 24.50 | 7.00 |
| GPRS 11 (GMSK, 3 Uplink) | 30.50 | 22.50 | 8.00 |
| GPRS 12 (GMSK, 4 Uplink) | 28.50 | 21.00 | 7.50 |
| GPRS 30 (GMSK, 1 Uplink) | 33.50 | 24.50 | 9.00 |
| GPRS 31 (GMSK, 2 Uplink) | 31.50 | 24.50 | 7.00 |
| GPRS 32 (GMSK, 3 Uplink) | 30.50 | 21.50 | 9.00 |
| GPRS 33 (GMSK, 4 Uplink) | 28.50 | 19.50 | 9.00 |
| EDGE 8 (8PSK, 1 Uplink) | 27.00 | 24.50 | 2.50 |
| EDGE 10 (8PSK, 2 Uplink) | 25.50 | 24.50 | 1.00 |
| EDGE 11 (8PSK, 3 Uplink) | 24.50 | 22.50 | 2.00 |
| EDGE 12 (8PSK, 4 Uplink) | 22.50 | 19.50 | 3.00 |
| EDGE 30 (8PSK, 1 Uplink) | 27.00 | 24.50 | 2.50 |
| EDGE 31 (8PSK, 2 Uplink) | 25.50 | 24.50 | 1.00 |
| EDGE 32 (8PSK, 3 Uplink) | 24.50 | 20.50 | 4.00 |
| EDGE 33 (8PSK, 4 Uplink) | 22.50 | 19.50 | 3.00 |

| Mode | GSM1900 (without Power Reduction) | GSM1900 (with Power Reduction) | Power Reduction (dB) |
|--------------------------|--------------------------------------|-----------------------------------|-------------------------|
| GPRS 8 (GMSK, 1 Uplink) | 30.50 | 24.50 | 6.00 |
| GPRS 10 (GMSK, 2 Uplink) | 28.50 | 24.50 | 4.00 |
| GPRS 11 (GMSK, 3 Uplink) | 27.50 | 22.50 | 5.00 |
| GPRS 12 (GMSK, 4 Uplink) | 25.50 | 21.00 | 4.50 |
| GPRS 30 (GMSK, 1 Uplink) | 30.50 | 24.50 | 6.00 |
| GPRS 31 (GMSK, 2 Uplink) | 28.50 | 24.50 | 4.00 |
| GPRS 32 (GMSK, 3 Uplink) | 27.50 | 21.50 | 6.00 |
| GPRS 33 (GMSK, 4 Uplink) | 25.50 | 21.00 | 4.50 |
| EDGE 8 (8PSK, 1 Uplink) | 26.00 | 24.50 | 1.50 |
| EDGE 10 (8PSK, 2 Uplink) | 24.50 | 24.50 | 0.00 |
| EDGE 11 (8PSK, 3 Uplink) | 23.50 | 21.50 | 2.00 |
| EDGE 12 (8PSK, 4 Uplink) | 21.50 | 19.50 | 2.00 |
| EDGE 30 (8PSK, 1 Uplink) | 26.00 | 24.50 | 1.50 |
| EDGE 31 (8PSK, 2 Uplink) | 24.50 | 24.50 | 0.00 |
| EDGE 32 (8PSK, 3 Uplink) | 23.50 | 19.50 | 4.00 |
| EDGE 33 (8PSK, 4 Uplink) | 21.50 | 19.00 | 2.50 |

| Mode | WCDMA Band II (without Power Reduction) | WCDMA Band II (with Power Reduction) | Power Reduction (dB) |
|-----------|--|---|-------------------------|
| RMC 12.2K | 24.50 | 17.50 | 7.00 |



FCC SAR Test Report

| Mode | WCDMA Band IV (without Power Reduction) | WCDMA Band IV (with Power Reduction) | Power Reduction (dB) |
|-----------|--|---|-------------------------|
| RMC 12.2K | 24.50 | 18.50 | 6.00 |

| Mode | WCDMA Band V (without Power Reduction) | WCDMA Band V (with Power Reduction) | Power Reduction (dB) |
|-----------|---|--|-------------------------|
| RMC 12.2K | 24.50 | 18.00 | 6.50 |

| Mode | LTE 2 (without Power Reduction) | LTE 2 (with Power Reduction) | Power Reduction (dB) |
|--------------|------------------------------------|---------------------------------|-------------------------|
| QPSK / 16QAM | 24.00 | 17.50 | 6.50 |

| Mode | LTE 4 (without Power Reduction) | LTE 4 (with Power Reduction) | Power Reduction (dB) |
|--------------|------------------------------------|---------------------------------|-------------------------|
| QPSK / 16QAM | 24.00 | 18.50 | 5.50 |

| Mode | LTE 5 (without Power Reduction) | LTE 5 (with Power Reduction) | Power Reduction (dB) |
|--------------|------------------------------------|---------------------------------|-------------------------|
| QPSK / 16QAM | 24.00 | 18.00 | 6.00 |

| Mode | LTE 7 (without Power Reduction) | LTE 7 (with Power Reduction) | Power Reduction (dB) |
|--------------|------------------------------------|---------------------------------|-------------------------|
| QPSK / 16QAM | 24.00 | 17.50 | 6.50 |

| Mode | LTE 13 (without Power Reduction) | LTE 13 (with Power Reduction) | Power Reduction (dB) |
|--------------|-------------------------------------|----------------------------------|-------------------------|
| QPSK / 16QAM | 24.00 | 19.50 | 4.50 |

| Mode | LTE 17 (without Power Reduction) | LTE 17 (with Power Reduction) | Power Reduction (dB) |
|--------------|-------------------------------------|----------------------------------|-------------------------|
| QPSK / 16QAM | 24.00 | 21.00 | 3.00 |

| Mode | 2.4G WLAN | 5.2G WLAN | 5.3G WLAN | 5.6G WLAN | 5.8G WLAN |
|--------------|-----------|-----------|-----------|-----------|-----------|
| 802.11b | 17.0 | N/A | N/A | N/A | N/A |
| 802.11g | 14.0 | N/A | N/A | N/A | N/A |
| 802.11a | N/A | 12.0 | 12.0 | 13.5 | 13.0 |
| 802.11n HT20 | 13.5 | 12.0 | 12.0 | 13.0 | 12.0 |
| 802.11n HT40 | 14.5 | 12.0 | 12.0 | 11.0 | 12.0 |

| Mode | Bluetooth |
|------|-----------|
| All | 8.0 |

FCC SAR Test Report

4.6.2 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) is shown as below.

| Band Channel | GSM850 | | | GSM1900 | | |
|---|--------|--------------|-------|---------|--------------|--------|
| | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency (MHz) | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | |
| Maximum Burst-Averaged Output Power | | | | | | |
| GPRS 8 (GMSK, 1 Uplink) | 32.66 | 32.77 | 32.75 | 29.47 | 29.58 | 29.35 |
| GPRS 10 (GMSK, 2 Uplink) | 31.34 | 31.45 | 31.43 | 28.14 | 28.25 | 28.02 |
| GPRS 11 (GMSK, 3 Uplink) | 29.38 | 29.49 | 29.47 | 26.19 | 26.30 | 26.07 |
| GPRS 12 (GMSK, 4 Uplink) | 27.54 | 27.63 | 27.65 | 24.39 | 24.50 | 24.27 |
| GPRS 30 (GMSK, 1 Uplink) | 32.57 | 32.66 | 32.68 | 29.46 | 29.57 | 29.34 |
| GPRS 31 (GMSK, 2 Uplink) | 30.42 | 30.51 | 30.53 | 27.17 | 27.28 | 27.05 |
| GPRS 32 (GMSK, 3 Uplink) | 29.36 | 29.45 | 29.47 | 26.16 | 26.27 | 26.04 |
| GPRS 33 (GMSK, 4 Uplink) | 27.50 | 27.59 | 27.61 | 24.37 | 24.48 | 24.25 |
| EDGE 8 (8PSK, 1 Uplink) | 26.45 | 26.54 | 26.56 | 25.68 | 25.79 | 25.56 |
| EDGE 10 (8PSK, 2 Uplink) | 25.19 | 25.28 | 25.30 | 23.86 | 23.97 | 23.74 |
| EDGE 11 (8PSK, 3 Uplink) | 24.20 | 24.29 | 24.31 | 22.91 | 23.02 | 22.79 |
| EDGE 12 (8PSK, 4 Uplink) | 22.25 | 22.34 | 22.36 | 20.92 | 21.03 | 20.80 |
| EDGE 30 (8PSK, 1 Uplink) | 26.49 | 26.58 | 26.60 | 25.71 | 25.82 | 25.59 |
| EDGE 31 (8PSK, 2 Uplink) | 25.23 | 25.32 | 25.34 | 23.83 | 23.94 | 23.71 |
| EDGE 32 (8PSK, 3 Uplink) | 24.23 | 24.32 | 24.34 | 22.93 | 23.04 | 22.81 |
| EDGE 33 (8PSK, 4 Uplink) | 22.23 | 22.32 | 22.34 | 20.94 | 21.05 | 20.82 |
| Maximum Frame-Averaged Output Power | | | | | | |
| GPRS 8 (GMSK, 1 Uplink) | 23.66 | 23.77 | 23.75 | 20.47 | 20.58 | 20.35 |
| GPRS 10 (GMSK, 2 Uplink) | 25.34 | 25.45 | 25.43 | 22.14 | 22.25 | 22.02 |
| GPRS 11 (GMSK, 3 Uplink) | 25.12 | 25.21 | 25.23 | 21.93 | 22.04 | 21.81 |
| GPRS 12 (GMSK, 4 Uplink) | 24.54 | 24.63 | 24.65 | 21.39 | 21.50 | 21.27 |
| GPRS 30 (GMSK, 1 Uplink) | 23.57 | 23.66 | 23.68 | 20.46 | 20.57 | 20.34 |
| GPRS 31 (GMSK, 2 Uplink) | 24.42 | 24.51 | 24.53 | 21.17 | 21.28 | 21.05 |
| GPRS 32 (GMSK, 3 Uplink) | 25.10 | 25.19 | 25.21 | 21.90 | 22.01 | 21.78 |
| GPRS 33 (GMSK, 4 Uplink) | 24.50 | 24.59 | 24.61 | 21.37 | 21.48 | 21.25 |
| EDGE 8 (8PSK, 1 Uplink) | 17.45 | 17.54 | 17.56 | 16.68 | 16.79 | 16.56 |
| EDGE 10 (8PSK, 2 Uplink) | 19.19 | 19.28 | 19.30 | 17.86 | 17.97 | 17.74 |
| EDGE 11 (8PSK, 3 Uplink) | 19.94 | 20.03 | 20.05 | 18.65 | 18.76 | 18.53 |
| EDGE 12 (8PSK, 4 Uplink) | 19.25 | 19.34 | 19.36 | 17.92 | 18.03 | 17.80 |
| EDGE 30 (8PSK, 1 Uplink) | 17.49 | 17.58 | 17.60 | 16.71 | 16.82 | 16.59 |
| EDGE 31 (8PSK, 2 Uplink) | 19.23 | 19.32 | 19.34 | 17.83 | 17.94 | 17.71 |
| EDGE 32 (8PSK, 3 Uplink) | 19.97 | 20.06 | 20.08 | 18.67 | 18.78 | 18.55 |
| EDGE 33 (8PSK, 4 Uplink) | 19.23 | 19.32 | 19.34 | 17.94 | 18.05 | 17.82 |

Note:

- SAR testing was performed on the maximum frame-averaged power mode.
- The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

$$\text{Frame-averaged power} = 10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8)$$

FCC SAR Test Report

| Band | GSM850 | | | GSM1900 | | |
|--|--------|--------------|-------|---------|--------------|--------|
| Channel | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency (MHz) | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | |
| Maximum Burst-Averaged Output Power | | | | | | |
| GPRS 8 (GMSK, 1 Uplink) | 23.96 | 24.30 | 24.03 | 23.99 | 24.32 | 24.10 |
| GPRS 10 (GMSK, 2 Uplink) | 23.92 | 24.26 | 23.99 | 23.98 | 24.31 | 24.09 |
| GPRS 11 (GMSK, 3 Uplink) | 21.87 | 22.21 | 21.94 | 22.02 | 22.35 | 22.13 |
| GPRS 12 (GMSK, 4 Uplink) | 20.43 | 20.77 | 20.50 | 20.54 | 20.87 | 20.65 |
| GPRS 30 (GMSK, 1 Uplink) | 23.81 | 24.15 | 23.88 | 23.91 | 24.24 | 24.02 |
| GPRS 31 (GMSK, 2 Uplink) | 23.84 | 24.18 | 23.91 | 23.82 | 24.15 | 23.93 |
| GPRS 32 (GMSK, 3 Uplink) | 20.86 | 21.20 | 20.93 | 20.92 | 21.25 | 21.03 |
| GPRS 33 (GMSK, 4 Uplink) | 18.87 | 19.21 | 18.94 | 20.59 | 20.92 | 20.70 |
| EDGE 8 (8PSK, 1 Uplink) | 23.91 | 24.25 | 23.98 | 23.96 | 24.29 | 24.08 |
| EDGE 10 (8PSK, 2 Uplink) | 23.83 | 24.17 | 23.90 | 23.93 | 24.27 | 24.04 |
| EDGE 11 (8PSK, 3 Uplink) | 21.81 | 22.15 | 21.88 | 20.74 | 21.07 | 20.85 |
| EDGE 12 (8PSK, 4 Uplink) | 19.04 | 19.38 | 19.11 | 18.75 | 19.08 | 18.86 |
| EDGE 30 (8PSK, 1 Uplink) | 23.86 | 24.20 | 23.93 | 23.93 | 24.26 | 24.04 |
| EDGE 31 (8PSK, 2 Uplink) | 23.82 | 24.16 | 23.89 | 23.92 | 24.25 | 24.03 |
| EDGE 32 (8PSK, 3 Uplink) | 20.01 | 20.35 | 20.08 | 18.94 | 19.27 | 19.05 |
| EDGE 33 (8PSK, 4 Uplink) | 18.82 | 19.16 | 18.89 | 18.55 | 18.88 | 18.66 |
| Maximum Frame-Averaged Output Power | | | | | | |
| GPRS 8 (GMSK, 1 Uplink) | 14.96 | 15.30 | 15.03 | 14.99 | 15.32 | 15.10 |
| GPRS 10 (GMSK, 2 Uplink) | 17.92 | 18.26 | 17.99 | 17.98 | 18.31 | 18.09 |
| GPRS 11 (GMSK, 3 Uplink) | 15.87 | 16.21 | 15.94 | 17.76 | 18.09 | 17.87 |
| GPRS 12 (GMSK, 4 Uplink) | 14.43 | 14.77 | 14.50 | 17.54 | 17.87 | 17.65 |
| GPRS 30 (GMSK, 1 Uplink) | 17.81 | 18.15 | 17.88 | 14.91 | 15.24 | 15.02 |
| GPRS 31 (GMSK, 2 Uplink) | 17.84 | 18.18 | 17.91 | 17.82 | 18.15 | 17.93 |
| GPRS 32 (GMSK, 3 Uplink) | 14.86 | 15.20 | 14.93 | 16.66 | 16.99 | 16.77 |
| GPRS 33 (GMSK, 4 Uplink) | 12.87 | 13.21 | 12.94 | 17.59 | 17.92 | 17.70 |
| EDGE 8 (8PSK, 1 Uplink) | 17.91 | 18.25 | 17.98 | 14.96 | 15.29 | 15.08 |
| EDGE 10 (8PSK, 2 Uplink) | 17.83 | 18.17 | 17.90 | 17.93 | 18.27 | 18.04 |
| EDGE 11 (8PSK, 3 Uplink) | 15.81 | 16.15 | 15.88 | 16.48 | 16.81 | 16.59 |
| EDGE 12 (8PSK, 4 Uplink) | 13.04 | 13.38 | 13.11 | 15.75 | 16.08 | 15.86 |
| EDGE 30 (8PSK, 1 Uplink) | 17.86 | 18.20 | 17.93 | 14.93 | 15.26 | 15.04 |
| EDGE 31 (8PSK, 2 Uplink) | 17.82 | 18.16 | 17.89 | 17.92 | 18.25 | 18.03 |
| EDGE 32 (8PSK, 3 Uplink) | 14.01 | 14.35 | 14.08 | 14.68 | 15.01 | 14.79 |
| EDGE 33 (8PSK, 4 Uplink) | 12.82 | 13.16 | 12.89 | 15.55 | 15.88 | 15.66 |

Note:

- SAR testing was performed on the maximum frame-averaged power mode.
- The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

$$\text{Frame-averaged power} = 10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8)$$



FCC SAR Test Report

| Band Channel Frequency (MHz) | WCDMA Band II | | | WCDMA Band V | | | 3GPP MPR (dB) |
|---|----------------|----------------|----------------|---------------|---------------|---------------|---------------------|
| | 9262 1852.4 | 9400 1880.0 | 9538 1907.6 | 4132 826.4 | 4182 836.4 | 4233 846.6 | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | |
| RMC 12.2K | 23.27 | 23.34 | 23.15 | 23.30 | 23.51 | 23.60 | - |
| HSDPA Subtest-1 | 23.25 | 23.32 | 23.13 | 23.33 | 23.54 | 23.58 | 0 |
| HSDPA Subtest-2 | 23.25 | 23.32 | 23.13 | 23.31 | 23.52 | 23.56 | 0 |
| HSDPA Subtest-3 | 22.77 | 22.81 | 22.65 | 22.85 | 23.06 | 23.05 | 0.5 |
| HSDPA Subtest-4 | 22.55 | 22.61 | 22.44 | 22.76 | 22.97 | 23.02 | 0.5 |
| HSUPA Subtest-1 | 22.67 | 22.74 | 22.55 | 22.52 | 22.73 | 22.77 | 0 |
| HSUPA Subtest-2 | 20.62 | 20.69 | 20.50 | 20.95 | 20.96 | 21.00 | 2 |
| HSUPA Subtest-3 | 21.49 | 21.56 | 21.37 | 21.73 | 21.94 | 21.98 | 1 |
| HSUPA Subtest-4 | 20.86 | 20.93 | 20.74 | 20.60 | 20.81 | 20.85 | 2 |
| HSUPA Subtest-5 | 22.45 | 22.52 | 22.33 | 22.47 | 22.68 | 22.72 | 0 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | |
| RMC 12.2K | 17.04 | 17.07 | 16.90 | 17.52 | 17.53 | 17.82 | - |
| HSDPA Subtest-1 | 16.90 | 16.96 | 16.85 | 17.47 | 17.64 | 17.69 | - |
| HSDPA Subtest-2 | 16.89 | 16.94 | 16.81 | 17.40 | 17.62 | 17.59 | - |
| HSDPA Subtest-3 | 16.36 | 16.45 | 16.48 | 16.92 | 17.10 | 17.09 | - |
| HSDPA Subtest-4 | 16.35 | 16.44 | 16.34 | 16.89 | 17.07 | 17.04 | - |
| HSUPA Subtest-1 | 16.91 | 16.79 | 16.80 | 17.50 | 17.58 | 17.63 | - |
| HSUPA Subtest-2 | 15.57 | 15.67 | 15.52 | 16.09 | 16.00 | 16.21 | - |
| HSUPA Subtest-3 | 16.36 | 16.34 | 16.09 | 17.05 | 17.16 | 17.21 | - |
| HSUPA Subtest-4 | 15.71 | 15.74 | 15.65 | 16.05 | 16.13 | 16.10 | - |
| HSUPA Subtest-5 | 16.89 | 16.71 | 16.60 | 17.49 | 17.54 | 17.50 | - |

| Band Channel Frequency (MHz) | WCDMA Band IV | | | 3GPP MPR (dB) |
|---|---------------|--------------|--------------|---------------------|
| | 1312 1537 | 1413 1638 | 1513 1738 | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | |
| RMC 12.2K | 23.72 | 23.81 | 23.71 | - |
| HSDPA Subtest-1 | 23.45 | 23.39 | 23.37 | 0 |
| HSDPA Subtest-2 | 23.43 | 23.41 | 23.39 | 0 |
| HSDPA Subtest-3 | 22.93 | 22.86 | 22.86 | 0.5 |
| HSDPA Subtest-4 | 22.72 | 22.66 | 22.64 | 0.5 |
| HSUPA Subtest-1 | 22.64 | 22.58 | 22.56 | 0 |
| HSUPA Subtest-2 | 20.96 | 20.90 | 20.88 | 2 |
| HSUPA Subtest-3 | 21.69 | 21.63 | 21.61 | 1 |
| HSUPA Subtest-4 | 20.82 | 20.76 | 20.74 | 2 |
| HSUPA Subtest-5 | 22.62 | 22.56 | 22.54 | 0 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | |
| RMC 12.2K | 18.18 | 18.43 | 18.10 | - |
| HSDPA Subtest-1 | 17.92 | 17.98 | 17.89 | - |
| HSDPA Subtest-2 | 17.91 | 17.94 | 17.84 | - |
| HSDPA Subtest-3 | 17.44 | 17.46 | 17.37 | - |
| HSDPA Subtest-4 | 17.43 | 17.36 | 17.32 | - |
| HSUPA Subtest-1 | 17.92 | 17.96 | 17.96 | - |
| HSUPA Subtest-2 | 16.29 | 16.49 | 16.51 | - |
| HSUPA Subtest-3 | 17.23 | 17.33 | 17.29 | - |
| HSUPA Subtest-4 | 16.21 | 16.28 | 16.18 | - |
| HSUPA Subtest-5 | 17.88 | 17.90 | 17.60 | - |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 18607 | Mid CH 18900 | High CH 19193 | | Low CH 18607 | Mid CH 18900 | High CH 19193 | |
| | | | 1850.7 MHz | 1880.0 MHz | 1909.3 MHz | | 1850.7 MHz | 1880.0 MHz | 1909.3 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 2 / 1.4M | 1 | 0 | 22.97 | 23.10 | 23.05 | 0 | 21.94 | 22.07 | 22.02 | 1 |
| | 1 | 2 | 22.64 | 22.66 | 22.65 | 0 | 21.61 | 21.63 | 21.62 | 1 |
| | 1 | 5 | 22.31 | 22.48 | 22.35 | 0 | 21.28 | 21.45 | 21.32 | 1 |
| | 3 | 0 | 21.99 | 22.08 | 22.01 | 0 | 20.96 | 21.05 | 20.98 | 1 |
| | 3 | 1 | 21.79 | 21.82 | 21.80 | 0 | 20.76 | 20.79 | 20.77 | 1 |
| | 3 | 3 | 21.63 | 21.81 | 21.75 | 0 | 20.60 | 20.78 | 20.72 | 1 |
| | 6 | 0 | 21.82 | 21.91 | 21.87 | 1 | 20.79 | 20.88 | 20.84 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 2 / 1.4M | 1 | 0 | 16.88 | 15.66 | 16.47 | 0 | 15.86 | 14.64 | 15.45 | 1 |
| | 1 | 2 | 16.38 | 15.50 | 16.03 | 0 | 15.36 | 14.48 | 15.01 | 1 |
| | 1 | 5 | 16.15 | 15.60 | 16.02 | 0 | 15.13 | 14.58 | 15.00 | 1 |
| | 3 | 0 | 15.48 | 15.58 | 15.56 | 0 | 14.46 | 14.56 | 14.54 | 1 |
| | 3 | 1 | 15.23 | 15.28 | 15.22 | 0 | 14.21 | 14.26 | 14.20 | 1 |
| | 3 | 3 | 15.35 | 15.23 | 15.15 | 0 | 14.33 | 14.21 | 14.13 | 1 |
| | 6 | 0 | 15.44 | 15.20 | 15.37 | 1 | 14.42 | 14.18 | 14.35 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 18615 | Mid CH 18900 | High CH 19185 | | Low CH 18615 | Mid CH 18900 | High CH 19185 | |
| | | | 1851.5 MHz | 1880.0 MHz | 1908.5 MHz | | 1851.5 MHz | 1880.0 MHz | 1908.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 2 / 3M | 1 | 0 | 23.10 | 23.23 | 23.18 | 0 | 22.07 | 22.20 | 22.15 | 1 |
| | 1 | 7 | 22.77 | 22.79 | 22.78 | 0 | 21.74 | 21.76 | 21.75 | 1 |
| | 1 | 14 | 22.44 | 22.61 | 22.48 | 0 | 21.41 | 21.58 | 21.45 | 1 |
| | 8 | 0 | 22.12 | 22.21 | 22.14 | 1 | 21.09 | 21.18 | 21.11 | 2 |
| | 8 | 3 | 21.92 | 21.95 | 21.93 | 1 | 20.89 | 20.92 | 20.90 | 2 |
| | 8 | 7 | 21.76 | 21.94 | 21.88 | 1 | 20.73 | 20.91 | 20.85 | 2 |
| | 15 | 0 | 21.95 | 22.04 | 22.00 | 1 | 20.92 | 21.01 | 20.97 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 2 / 3M | 1 | 0 | 16.95 | 15.73 | 16.54 | 0 | 15.93 | 14.71 | 15.52 | 1 |
| | 1 | 7 | 16.45 | 15.57 | 16.10 | 0 | 15.43 | 14.55 | 15.08 | 1 |
| | 1 | 14 | 16.22 | 15.67 | 16.09 | 0 | 15.20 | 14.65 | 15.07 | 1 |
| | 8 | 0 | 15.55 | 15.65 | 15.63 | 1 | 14.53 | 14.63 | 14.61 | 2 |
| | 8 | 3 | 15.30 | 15.35 | 15.29 | 1 | 14.28 | 14.33 | 14.27 | 2 |
| | 8 | 7 | 15.42 | 15.30 | 15.22 | 1 | 14.40 | 14.28 | 14.20 | 2 |
| | 15 | 0 | 15.51 | 15.27 | 15.44 | 1 | 14.49 | 14.25 | 14.42 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 18625 | Mid CH 18900 | High CH 19175 | | Low CH 18625 | Mid CH 18900 | High CH 19175 | |
| | | | 1852.5 MHz | 1880.0 MHz | 1907.5 MHz | | 1852.5 MHz | 1880.0 MHz | 1907.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 2 / 5M | 1 | 0 | 23.21 | 23.34 | 23.29 | 0 | 22.18 | 22.31 | 22.26 | 1 |
| | 1 | 12 | 22.88 | 22.90 | 22.89 | 0 | 21.85 | 21.87 | 21.86 | 1 |
| | 1 | 24 | 22.55 | 22.72 | 22.59 | 0 | 21.52 | 21.69 | 21.56 | 1 |
| | 12 | 0 | 22.23 | 22.32 | 22.25 | 1 | 21.20 | 21.29 | 21.22 | 2 |
| | 12 | 6 | 22.03 | 22.06 | 22.04 | 1 | 21.00 | 21.03 | 21.01 | 2 |
| | 12 | 13 | 21.87 | 22.05 | 21.99 | 1 | 20.84 | 21.02 | 20.96 | 2 |
| | 25 | 0 | 22.06 | 22.15 | 22.11 | 1 | 21.03 | 21.12 | 21.08 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 2 / 5M | 1 | 0 | 17.07 | 15.85 | 16.66 | 0 | 16.05 | 14.83 | 15.64 | 1 |
| | 1 | 12 | 16.57 | 15.69 | 16.22 | 0 | 15.55 | 14.67 | 15.20 | 1 |
| | 1 | 24 | 16.34 | 15.79 | 16.21 | 0 | 15.32 | 14.77 | 15.19 | 1 |
| | 12 | 0 | 15.67 | 15.77 | 15.75 | 1 | 14.65 | 14.75 | 14.73 | 2 |
| | 12 | 6 | 15.42 | 15.47 | 15.41 | 1 | 14.40 | 14.45 | 14.39 | 2 |
| | 12 | 13 | 15.54 | 15.42 | 15.34 | 1 | 14.52 | 14.40 | 14.32 | 2 |
| | 25 | 0 | 15.63 | 15.39 | 15.56 | 1 | 14.61 | 14.37 | 14.54 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 18650 | Mid CH 18900 | High CH 19150 | | Low CH 18650 | Mid CH 18900 | High CH 19150 | |
| | | | 1855.0 MHz | 1880.0 MHz | 1905.0 MHz | | 1855.0 MHz | 1880.0 MHz | 1905.0 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 2 / 10M | 1 | 0 | 23.33 | 23.46 | 23.41 | 0 | 22.30 | 22.43 | 22.38 | 1 |
| | 1 | 24 | 23.00 | 23.02 | 23.01 | 0 | 21.97 | 21.99 | 21.98 | 1 |
| | 1 | 49 | 22.67 | 22.84 | 22.71 | 0 | 21.64 | 21.81 | 21.68 | 1 |
| | 25 | 0 | 22.35 | 22.44 | 22.37 | 1 | 21.32 | 21.41 | 21.34 | 2 |
| | 25 | 12 | 22.15 | 22.18 | 22.16 | 1 | 21.12 | 21.15 | 21.13 | 2 |
| | 25 | 25 | 21.99 | 22.17 | 22.11 | 1 | 20.96 | 21.14 | 21.08 | 2 |
| | 50 | 0 | 22.18 | 22.27 | 22.23 | 1 | 21.15 | 21.24 | 21.20 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 2 / 10M | 1 | 0 | 17.15 | 15.93 | 16.74 | 0 | 16.13 | 14.91 | 15.72 | 1 |
| | 1 | 24 | 16.65 | 15.77 | 16.30 | 0 | 15.63 | 14.75 | 15.28 | 1 |
| | 1 | 49 | 16.42 | 15.87 | 16.29 | 0 | 15.40 | 14.85 | 15.27 | 1 |
| | 25 | 0 | 15.75 | 15.85 | 15.83 | 1 | 14.73 | 14.83 | 14.81 | 2 |
| | 25 | 12 | 15.50 | 15.55 | 15.49 | 1 | 14.48 | 14.53 | 14.47 | 2 |
| | 25 | 25 | 15.62 | 15.50 | 15.42 | 1 | 14.60 | 14.48 | 14.40 | 2 |
| | 50 | 0 | 15.71 | 15.47 | 15.64 | 1 | 14.69 | 14.45 | 14.62 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 18675 | Mid CH 18900 | High CH 19125 | | Low CH 18675 | Mid CH 18900 | High CH 19125 | |
| | | | 1857.5 MHz | 1880.0 MHz | 1902.5 MHz | | 1857.5 MHz | 1880.0 MHz | 1902.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 2 / 15M | 1 | 0 | 23.44 | 23.57 | 23.52 | 0 | 22.41 | 22.54 | 22.49 | 1 |
| | 1 | 37 | 23.11 | 23.13 | 23.12 | 0 | 22.08 | 22.10 | 22.09 | 1 |
| | 1 | 74 | 22.78 | 22.95 | 22.82 | 0 | 21.75 | 21.92 | 21.79 | 1 |
| | 36 | 0 | 22.46 | 22.55 | 22.48 | 1 | 21.43 | 21.52 | 21.45 | 2 |
| | 36 | 19 | 22.26 | 22.29 | 22.27 | 1 | 21.23 | 21.26 | 21.24 | 2 |
| | 36 | 39 | 22.10 | 22.28 | 22.22 | 1 | 21.07 | 21.25 | 21.19 | 2 |
| | 75 | 0 | 22.29 | 22.38 | 22.34 | 1 | 21.26 | 21.35 | 21.31 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 2 / 15M | 1 | 0 | 17.26 | 16.04 | 16.85 | 0 | 16.24 | 15.02 | 15.83 | 1 |
| | 1 | 37 | 16.76 | 15.88 | 16.41 | 0 | 15.74 | 14.86 | 15.39 | 1 |
| | 1 | 74 | 16.53 | 15.98 | 16.40 | 0 | 15.51 | 14.96 | 15.38 | 1 |
| | 36 | 0 | 15.86 | 15.96 | 15.94 | 1 | 14.84 | 14.94 | 14.92 | 2 |
| | 36 | 19 | 15.61 | 15.66 | 15.60 | 1 | 14.59 | 14.64 | 14.58 | 2 |
| | 36 | 39 | 15.73 | 15.61 | 15.53 | 1 | 14.71 | 14.59 | 14.51 | 2 |
| | 75 | 0 | 15.82 | 15.58 | 15.75 | 1 | 14.80 | 14.56 | 14.73 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 18700 | Mid CH 18900 | High CH 19100 | | Low CH 18700 | Mid CH 18900 | High CH 19100 | |
| | | | 1860.0 MHz | 1880.0 MHz | 1900.0 MHz | | 1860.0 MHz | 1880.0 MHz | 1900.0 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 2 / 20M | 1 | 0 | 23.57 | 23.70 | 23.65 | 0 | 22.54 | 22.67 | 22.62 | 1 |
| | 1 | 50 | 23.24 | 23.26 | 23.25 | 0 | 22.21 | 22.23 | 22.22 | 1 |
| | 1 | 99 | 22.91 | 23.08 | 22.95 | 0 | 21.88 | 22.05 | 21.92 | 1 |
| | 50 | 0 | 22.59 | 22.68 | 22.61 | 1 | 21.56 | 21.65 | 21.58 | 2 |
| | 50 | 25 | 22.39 | 22.42 | 22.40 | 1 | 21.36 | 21.39 | 21.37 | 2 |
| | 50 | 50 | 22.23 | 22.41 | 22.35 | 1 | 21.20 | 21.38 | 21.32 | 2 |
| | 100 | 0 | 22.42 | 22.51 | 22.47 | 1 | 21.39 | 21.48 | 21.44 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 2 / 20M | 1 | 0 | 17.38 | 17.16 | 17.07 | 0 | 16.36 | 15.14 | 15.95 | 1 |
| | 1 | 50 | 16.88 | 16.00 | 16.53 | 0 | 15.86 | 14.98 | 15.51 | 1 |
| | 1 | 99 | 16.65 | 16.10 | 16.52 | 0 | 15.63 | 15.08 | 15.50 | 1 |
| | 50 | 0 | 16.08 | 16.28 | 16.26 | 1 | 14.96 | 15.06 | 15.04 | 2 |
| | 50 | 25 | 15.73 | 15.78 | 15.72 | 1 | 14.71 | 14.76 | 14.70 | 2 |
| | 50 | 50 | 15.85 | 15.73 | 15.65 | 1 | 14.83 | 14.71 | 14.63 | 2 |
| | 100 | 0 | 15.94 | 15.70 | 15.87 | 1 | 14.92 | 14.68 | 14.85 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 19957 | Mid CH 20175 | High CH 20393 | | Low CH 19957 | Mid CH 20175 | High CH 20393 | |
| | | | 1710.7 MHz | 1732.5 MHz | 1754.3 MHz | | 1710.7 MHz | 1732.5 MHz | 1754.3 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 4 / 1.4M | 1 | 0 | 22.91 | 22.93 | 23.01 | 0 | 21.89 | 21.91 | 21.99 | 1 |
| | 1 | 2 | 22.46 | 22.53 | 22.66 | 0 | 21.44 | 21.51 | 21.64 | 1 |
| | 1 | 5 | 22.15 | 22.32 | 22.48 | 0 | 21.13 | 21.30 | 21.46 | 1 |
| | 3 | 0 | 21.86 | 21.93 | 22.01 | 0 | 20.84 | 20.91 | 20.99 | 1 |
| | 3 | 1 | 21.62 | 21.65 | 21.77 | 0 | 20.60 | 20.63 | 20.75 | 1 |
| | 3 | 3 | 21.53 | 21.63 | 21.76 | 0 | 20.51 | 20.61 | 20.74 | 1 |
| | 6 | 0 | 21.66 | 21.73 | 21.89 | 1 | 20.64 | 20.71 | 20.87 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 4 / 1.4M | 1 | 0 | 17.81 | 17.09 | 17.88 | 0 | 16.80 | 16.08 | 16.87 | 1 |
| | 1 | 2 | 17.50 | 16.52 | 17.40 | 0 | 16.49 | 15.51 | 16.39 | 1 |
| | 1 | 5 | 17.19 | 16.29 | 17.41 | 0 | 16.18 | 15.28 | 16.40 | 1 |
| | 3 | 0 | 16.52 | 15.74 | 16.73 | 0 | 15.51 | 14.73 | 15.72 | 1 |
| | 3 | 1 | 16.40 | 15.37 | 16.49 | 0 | 15.39 | 14.36 | 15.48 | 1 |
| | 3 | 3 | 16.37 | 15.41 | 16.47 | 0 | 15.36 | 14.40 | 15.46 | 1 |
| | 6 | 0 | 16.45 | 15.40 | 16.57 | 1 | 15.44 | 14.39 | 15.56 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 19965 | Mid CH 20175 | High CH 20385 | | Low CH 19965 | Mid CH 20175 | High CH 20385 | |
| | | | 1711.5 MHz | 1732.5 MHz | 1753.5 MHz | | 1711.5 MHz | 1732.5 MHz | 1753.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 4 / 3M | 1 | 0 | 23.03 | 23.05 | 23.13 | 0 | 22.01 | 22.03 | 22.11 | 1 |
| | 1 | 7 | 22.58 | 22.65 | 22.78 | 0 | 21.56 | 21.63 | 21.76 | 1 |
| | 1 | 14 | 22.27 | 22.44 | 22.60 | 0 | 21.25 | 21.42 | 21.58 | 1 |
| | 8 | 0 | 21.98 | 22.05 | 22.13 | 1 | 20.96 | 21.03 | 21.11 | 2 |
| | 8 | 3 | 21.74 | 21.77 | 21.89 | 1 | 20.72 | 20.75 | 20.87 | 2 |
| | 8 | 7 | 21.65 | 21.75 | 21.88 | 1 | 20.63 | 20.73 | 20.86 | 2 |
| | 15 | 0 | 21.78 | 21.85 | 22.01 | 1 | 20.76 | 20.83 | 20.99 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 4 / 3M | 1 | 0 | 17.91 | 17.19 | 17.98 | 0 | 16.90 | 16.18 | 16.97 | 1 |
| | 1 | 7 | 17.60 | 16.62 | 17.50 | 0 | 16.59 | 15.61 | 16.49 | 1 |
| | 1 | 14 | 17.29 | 16.39 | 17.51 | 0 | 16.28 | 15.38 | 16.50 | 1 |
| | 8 | 0 | 16.62 | 15.84 | 16.83 | 1 | 15.61 | 14.83 | 15.82 | 2 |
| | 8 | 3 | 16.50 | 15.47 | 16.59 | 1 | 15.49 | 14.46 | 15.58 | 2 |
| | 8 | 7 | 16.47 | 15.51 | 16.57 | 1 | 15.46 | 14.50 | 15.56 | 2 |
| | 15 | 0 | 16.55 | 15.50 | 16.67 | 1 | 15.54 | 14.49 | 15.66 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 19975 | Mid CH 20175 | High CH 20375 | | Low CH 19975 | Mid CH 20175 | High CH 20375 | |
| | | | 1712.5 MHz | 1732.5 MHz | 1752.5 MHz | | 1712.5 MHz | 1732.5 MHz | 1752.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 4 / 5M | 1 | 0 | 23.16 | 23.18 | 23.26 | 0 | 22.14 | 22.16 | 22.24 | 1 |
| | 1 | 12 | 22.71 | 22.78 | 22.91 | 0 | 21.69 | 21.76 | 21.89 | 1 |
| | 1 | 24 | 22.40 | 22.57 | 22.73 | 0 | 21.38 | 21.55 | 21.71 | 1 |
| | 12 | 0 | 22.11 | 22.18 | 22.26 | 1 | 21.09 | 21.16 | 21.24 | 2 |
| | 12 | 6 | 21.87 | 21.90 | 22.02 | 1 | 20.85 | 20.88 | 21.00 | 2 |
| | 12 | 13 | 21.78 | 21.88 | 22.01 | 1 | 20.76 | 20.86 | 20.99 | 2 |
| | 25 | 0 | 21.91 | 21.98 | 22.14 | 1 | 20.89 | 20.96 | 21.12 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 4 / 5M | 1 | 0 | 18.02 | 17.30 | 18.09 | 0 | 17.01 | 16.29 | 17.08 | 1 |
| | 1 | 12 | 17.71 | 16.73 | 17.61 | 0 | 16.70 | 15.72 | 16.60 | 1 |
| | 1 | 24 | 17.40 | 16.50 | 17.62 | 0 | 16.39 | 15.49 | 16.61 | 1 |
| | 12 | 0 | 16.73 | 15.95 | 16.94 | 1 | 15.72 | 14.94 | 15.93 | 2 |
| | 12 | 6 | 16.61 | 15.58 | 16.70 | 1 | 15.60 | 14.57 | 15.69 | 2 |
| | 12 | 13 | 16.58 | 15.62 | 16.68 | 1 | 15.57 | 14.61 | 15.67 | 2 |
| | 25 | 0 | 16.66 | 15.61 | 16.78 | 1 | 15.65 | 14.60 | 15.77 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20000 | Mid CH 20175 | High CH 20350 | | Low CH 20000 | Mid CH 20175 | High CH 20350 | |
| | | | 1715.0 MHz | 1732.5 MHz | 1750.0 MHz | | 1715.0 MHz | 1732.5 MHz | 1750.0 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 4 / 10M | 1 | 0 | 23.27 | 23.29 | 23.37 | 0 | 22.25 | 22.27 | 22.35 | 1 |
| | 1 | 24 | 22.82 | 22.89 | 23.02 | 0 | 21.80 | 21.87 | 22.00 | 1 |
| | 1 | 49 | 22.51 | 22.68 | 22.84 | 0 | 21.49 | 21.66 | 21.82 | 1 |
| | 25 | 0 | 22.22 | 22.29 | 22.37 | 1 | 21.20 | 21.27 | 21.35 | 2 |
| | 25 | 12 | 21.98 | 22.01 | 22.13 | 1 | 20.96 | 20.99 | 21.11 | 2 |
| | 25 | 25 | 21.89 | 21.99 | 22.12 | 1 | 20.87 | 20.97 | 21.10 | 2 |
| | 50 | 0 | 22.02 | 22.09 | 22.25 | 1 | 21.00 | 21.07 | 21.23 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 4 / 10M | 1 | 0 | 18.16 | 17.44 | 18.23 | 0 | 17.15 | 16.43 | 17.22 | 1 |
| | 1 | 24 | 17.85 | 16.87 | 17.75 | 0 | 16.84 | 15.86 | 16.74 | 1 |
| | 1 | 49 | 17.54 | 16.64 | 17.76 | 0 | 16.53 | 15.63 | 16.75 | 1 |
| | 25 | 0 | 16.87 | 16.09 | 17.08 | 1 | 15.86 | 15.08 | 16.07 | 2 |
| | 25 | 12 | 16.75 | 15.72 | 16.84 | 1 | 15.74 | 14.71 | 15.83 | 2 |
| | 25 | 25 | 16.72 | 15.76 | 16.82 | 1 | 15.71 | 14.75 | 15.81 | 2 |
| | 50 | 0 | 16.80 | 15.75 | 16.92 | 1 | 15.79 | 14.74 | 15.91 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20025 | Mid CH 20175 | High CH 20325 | | Low CH 20025 | Mid CH 20175 | High CH 20325 | |
| | | | 1717.5 MHz | 1732.5 MHz | 1747.5 MHz | | 1717.5 MHz | 1732.5 MHz | 1747.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 4 / 15M | 1 | 0 | 23.40 | 23.42 | 23.50 | 0 | 22.38 | 22.40 | 22.48 | 1 |
| | 1 | 37 | 22.95 | 23.02 | 23.15 | 0 | 21.93 | 22.00 | 22.13 | 1 |
| | 1 | 74 | 22.64 | 22.81 | 22.97 | 0 | 21.62 | 21.79 | 21.95 | 1 |
| | 36 | 0 | 22.35 | 22.42 | 22.50 | 1 | 21.33 | 21.40 | 21.48 | 2 |
| | 36 | 19 | 22.11 | 22.14 | 22.26 | 1 | 21.09 | 21.12 | 21.24 | 2 |
| | 36 | 39 | 22.02 | 22.12 | 22.25 | 1 | 21.00 | 21.10 | 21.23 | 2 |
| | 75 | 0 | 22.15 | 22.22 | 22.38 | 1 | 21.13 | 21.20 | 21.36 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 4 / 15M | 1 | 0 | 18.28 | 17.56 | 18.35 | 0 | 17.27 | 16.55 | 17.34 | 1 |
| | 1 | 37 | 17.97 | 16.99 | 17.87 | 0 | 16.96 | 15.98 | 16.86 | 1 |
| | 1 | 74 | 17.66 | 16.76 | 17.88 | 0 | 16.65 | 15.75 | 16.87 | 1 |
| | 36 | 0 | 16.99 | 16.21 | 17.20 | 1 | 15.98 | 15.20 | 16.19 | 2 |
| | 36 | 19 | 16.87 | 15.84 | 16.96 | 1 | 15.86 | 14.83 | 15.95 | 2 |
| | 36 | 39 | 16.84 | 15.88 | 16.94 | 1 | 15.83 | 14.87 | 15.93 | 2 |
| | 75 | 0 | 16.92 | 15.87 | 17.04 | 1 | 15.91 | 14.86 | 16.03 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20050 | Mid CH 20175 | High CH 20300 | | Low CH 20050 | Mid CH 20175 | High CH 20300 | |
| | | | 1720.0 MHz | 1732.5 MHz | 1745.0 MHz | | 1720.0 MHz | 1732.5 MHz | 1745.0 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 4 / 20M | 1 | 0 | 23.52 | 23.54 | 23.62 | 0 | 22.50 | 22.52 | 22.60 | 1 |
| | 1 | 50 | 23.07 | 23.14 | 23.27 | 0 | 22.05 | 22.12 | 22.25 | 1 |
| | 1 | 99 | 22.76 | 22.93 | 23.09 | 0 | 21.74 | 21.91 | 22.07 | 1 |
| | 50 | 0 | 22.47 | 22.54 | 22.62 | 1 | 21.45 | 21.52 | 21.60 | 2 |
| | 50 | 25 | 22.23 | 22.26 | 22.38 | 1 | 21.21 | 21.24 | 21.36 | 2 |
| | 50 | 50 | 22.14 | 22.24 | 22.37 | 1 | 21.12 | 21.22 | 21.35 | 2 |
| | 100 | 0 | 22.27 | 22.34 | 22.50 | 1 | 21.25 | 21.32 | 21.48 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 4 / 20M | 1 | 0 | 18.37 | 17.65 | 18.44 | 0 | 17.36 | 16.64 | 17.43 | 1 |
| | 1 | 50 | 18.06 | 17.08 | 17.96 | 0 | 17.05 | 16.07 | 16.95 | 1 |
| | 1 | 99 | 17.75 | 16.85 | 17.97 | 0 | 16.74 | 15.84 | 16.96 | 1 |
| | 50 | 0 | 17.08 | 16.30 | 17.29 | 1 | 16.07 | 15.29 | 16.28 | 2 |
| | 50 | 25 | 16.96 | 15.93 | 17.05 | 1 | 15.95 | 14.92 | 16.04 | 2 |
| | 50 | 50 | 16.93 | 15.97 | 17.03 | 1 | 15.92 | 14.96 | 16.02 | 2 |
| | 100 | 0 | 17.01 | 15.96 | 17.13 | 1 | 16.00 | 14.95 | 16.12 | 2 |



FCC SAR Test Report

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| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20407 | Mid CH 20525 | High CH 20643 | | Low CH 20407 | Mid CH 20525 | High CH 20643 | |
| | | | 824.7 MHz | 836.5 MHz | 848.3 MHz | | 824.7 MHz | 836.5 MHz | 848.3 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 5 / 1.4M | 1 | 0 | 23.36 | 23.31 | 23.29 | 0 | 22.32 | 22.27 | 22.25 | 1 |
| | 1 | 2 | 23.33 | 23.29 | 23.27 | 0 | 22.29 | 22.25 | 22.23 | 1 |
| | 1 | 5 | 23.21 | 23.18 | 23.09 | 0 | 22.17 | 22.14 | 22.05 | 1 |
| | 3 | 0 | 22.52 | 22.42 | 22.38 | 0 | 21.48 | 21.38 | 21.34 | 1 |
| | 3 | 1 | 22.42 | 22.37 | 22.33 | 0 | 21.38 | 21.33 | 21.29 | 1 |
| | 3 | 3 | 22.36 | 22.32 | 22.41 | 0 | 21.32 | 21.28 | 21.37 | 1 |
| | 6 | 0 | 22.43 | 22.38 | 22.35 | 1 | 21.39 | 21.34 | 21.31 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 5 / 1.4M | 1 | 0 | 17.63 | 16.91 | 17.56 | 0 | 16.60 | 15.88 | 16.53 | 1 |
| | 1 | 2 | 17.55 | 16.61 | 17.48 | 0 | 16.52 | 15.58 | 16.45 | 1 |
| | 1 | 5 | 17.41 | 17.00 | 17.40 | 0 | 16.38 | 15.97 | 16.37 | 1 |
| | 3 | 0 | 16.73 | 15.71 | 16.60 | 0 | 15.70 | 14.68 | 15.57 | 1 |
| | 3 | 1 | 16.68 | 15.67 | 16.58 | 0 | 15.65 | 14.64 | 15.55 | 1 |
| | 3 | 3 | 16.57 | 15.50 | 16.54 | 0 | 15.54 | 14.47 | 15.51 | 1 |
| | 6 | 0 | 16.72 | 15.65 | 16.54 | 1 | 15.69 | 14.62 | 15.51 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20415 | Mid CH 20525 | High CH 20635 | | Low CH 20415 | Mid CH 20525 | High CH 20635 | |
| | | | 825.5 MHz | 836.5 MHz | 847.5 MHz | | 825.5 MHz | 836.5 MHz | 847.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 5 / 3M | 1 | 0 | 23.48 | 23.43 | 23.41 | 0 | 22.44 | 22.39 | 22.37 | 1 |
| | 1 | 7 | 23.45 | 23.41 | 23.39 | 0 | 22.41 | 22.37 | 22.35 | 1 |
| | 1 | 14 | 23.33 | 23.30 | 23.21 | 0 | 22.29 | 22.26 | 22.17 | 1 |
| | 8 | 0 | 22.64 | 22.54 | 22.50 | 1 | 21.60 | 21.50 | 21.46 | 2 |
| | 8 | 3 | 22.54 | 22.49 | 22.45 | 1 | 21.50 | 21.45 | 21.41 | 2 |
| | 8 | 7 | 22.48 | 22.44 | 22.53 | 1 | 21.44 | 21.40 | 21.49 | 2 |
| | 15 | 0 | 22.55 | 22.50 | 22.47 | 1 | 21.51 | 21.46 | 21.43 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 5 / 3M | 1 | 0 | 17.71 | 16.99 | 17.64 | 0 | 16.68 | 15.96 | 16.61 | 1 |
| | 1 | 7 | 17.63 | 16.69 | 17.56 | 0 | 16.60 | 15.66 | 16.53 | 1 |
| | 1 | 14 | 17.49 | 17.08 | 17.48 | 0 | 16.46 | 16.05 | 16.45 | 1 |
| | 8 | 0 | 16.81 | 15.79 | 16.68 | 1 | 15.78 | 14.76 | 15.65 | 2 |
| | 8 | 3 | 16.76 | 15.75 | 16.66 | 1 | 15.73 | 14.72 | 15.63 | 2 |
| | 8 | 7 | 16.65 | 15.58 | 16.62 | 1 | 15.62 | 14.55 | 15.59 | 2 |
| | 15 | 0 | 16.80 | 15.73 | 16.62 | 1 | 15.77 | 14.70 | 15.59 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20425 | Mid CH 20525 | High CH 20625 | | Low CH 20425 | Mid CH 20525 | High CH 20625 | |
| | | | 826.5 MHz | 836.5 MHz | 846.5 MHz | | 826.5 MHz | 836.5 MHz | 846.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 5 / 5M | 1 | 0 | 23.61 | 23.56 | 23.54 | 0 | 22.57 | 22.52 | 22.50 | 1 |
| | 1 | 12 | 23.58 | 23.54 | 23.52 | 0 | 22.54 | 22.50 | 22.48 | 1 |
| | 1 | 24 | 23.46 | 23.43 | 23.34 | 0 | 22.42 | 22.39 | 22.30 | 1 |
| | 12 | 0 | 22.77 | 22.67 | 22.63 | 1 | 21.73 | 21.63 | 21.59 | 2 |
| | 12 | 6 | 22.67 | 22.62 | 22.58 | 1 | 21.63 | 21.58 | 21.54 | 2 |
| | 12 | 13 | 22.61 | 22.57 | 22.66 | 1 | 21.57 | 21.53 | 21.62 | 2 |
| | 25 | 0 | 22.68 | 22.63 | 22.60 | 1 | 21.64 | 21.59 | 21.56 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 5 / 5M | 1 | 0 | 17.85 | 17.13 | 17.78 | 0 | 16.82 | 16.10 | 16.75 | 1 |
| | 1 | 12 | 17.77 | 16.83 | 17.70 | 0 | 16.74 | 15.80 | 16.67 | 1 |
| | 1 | 24 | 17.63 | 17.22 | 17.62 | 0 | 16.60 | 16.19 | 16.59 | 1 |
| | 12 | 0 | 16.95 | 15.93 | 16.82 | 1 | 15.92 | 14.90 | 15.79 | 2 |
| | 12 | 6 | 16.90 | 15.89 | 16.80 | 1 | 15.87 | 14.86 | 15.77 | 2 |
| | 12 | 13 | 16.79 | 15.72 | 16.76 | 1 | 15.76 | 14.69 | 15.73 | 2 |
| | 25 | 0 | 16.94 | 15.87 | 16.76 | 1 | 15.91 | 14.84 | 15.73 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20450 | Mid CH 20525 | High CH 20600 | | Low CH 20450 | Mid CH 20525 | High CH 20600 | |
| | | | 829.0 MHz | 836.5 MHz | 844.0 MHz | | 829.0 MHz | 836.5 MHz | 844.0 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 5 / 10M | 1 | 0 | 23.72 | 23.67 | 23.65 | 0 | 22.68 | 22.63 | 22.61 | 1 |
| | 1 | 24 | 23.69 | 23.65 | 23.63 | 0 | 22.65 | 22.61 | 22.59 | 1 |
| | 1 | 49 | 23.57 | 23.54 | 23.45 | 0 | 22.53 | 22.50 | 22.41 | 1 |
| | 25 | 0 | 22.80 | 22.78 | 22.74 | 1 | 21.84 | 21.74 | 21.70 | 2 |
| | 25 | 12 | 22.78 | 22.73 | 22.69 | 1 | 21.74 | 21.69 | 21.65 | 2 |
| | 25 | 25 | 22.72 | 22.68 | 22.77 | 1 | 21.68 | 21.64 | 21.73 | 2 |
| | 50 | 0 | 22.79 | 22.74 | 22.71 | 1 | 21.75 | 21.70 | 21.67 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 5 / 10M | 1 | 0 | 17.96 | 17.24 | 17.89 | 0 | 16.93 | 16.21 | 16.86 | 1 |
| | 1 | 24 | 17.88 | 16.94 | 17.81 | 0 | 16.85 | 15.91 | 16.78 | 1 |
| | 1 | 49 | 17.74 | 17.33 | 17.73 | 0 | 16.71 | 16.30 | 16.70 | 1 |
| | 25 | 0 | 17.00 | 16.04 | 16.93 | 1 | 16.03 | 15.01 | 15.90 | 2 |
| | 25 | 12 | 16.99 | 16.00 | 16.91 | 1 | 15.98 | 14.97 | 15.88 | 2 |
| | 25 | 25 | 16.90 | 15.83 | 16.87 | 1 | 15.87 | 14.80 | 15.84 | 2 |
| | 50 | 0 | 17.05 | 15.98 | 16.87 | 1 | 16.02 | 14.95 | 15.84 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20775 | Mid CH 21100 | High CH 21425 | | Low CH 20775 | Mid CH 21100 | High CH 21425 | |
| | | | 2502.5 MHz | 2535.0 MHz | 2567.5 MHz | | 2502.5 MHz | 2535.0 MHz | 2567.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 7 / 5M | 1 | 0 | 22.55 | 22.43 | 22.86 | 0 | 21.46 | 21.34 | 21.77 | 1 |
| | 1 | 12 | 21.71 | 21.83 | 22.26 | 0 | 20.62 | 20.74 | 21.17 | 1 |
| | 1 | 24 | 21.74 | 21.86 | 22.29 | 0 | 20.65 | 20.77 | 21.20 | 1 |
| | 12 | 0 | 21.27 | 21.39 | 21.82 | 1 | 20.18 | 20.30 | 20.73 | 2 |
| | 12 | 6 | 21.00 | 21.12 | 21.55 | 1 | 19.91 | 20.03 | 20.46 | 2 |
| | 12 | 13 | 21.01 | 21.13 | 21.56 | 1 | 19.92 | 20.04 | 20.47 | 2 |
| | 25 | 0 | 21.17 | 21.29 | 21.72 | 1 | 20.08 | 20.20 | 20.63 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 7 / 5M | 1 | 0 | 16.73 | 16.66 | 16.81 | 0 | 15.71 | 15.64 | 15.79 | 1 |
| | 1 | 12 | 16.00 | 15.93 | 16.08 | 0 | 14.98 | 14.91 | 15.06 | 1 |
| | 1 | 24 | 15.98 | 15.91 | 16.06 | 0 | 14.96 | 14.89 | 15.04 | 1 |
| | 12 | 0 | 15.46 | 15.39 | 15.54 | 1 | 14.44 | 14.37 | 14.52 | 2 |
| | 12 | 6 | 15.12 | 15.05 | 15.20 | 1 | 14.10 | 14.03 | 14.18 | 2 |
| | 12 | 13 | 15.22 | 15.15 | 15.30 | 1 | 14.20 | 14.13 | 14.28 | 2 |
| | 25 | 0 | 15.03 | 14.96 | 15.11 | 1 | 14.01 | 13.94 | 14.09 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20800 | Mid CH 21100 | High CH 21400 | | Low CH 20800 | Mid CH 21100 | High CH 21400 | |
| | | | 2505.0 MHz | 2535.0 MHz | 2565.0 MHz | | 2505.0 MHz | 2535.0 MHz | 2565.0 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 7 / 10M | 1 | 0 | 22.66 | 22.54 | 22.97 | 0 | 21.62 | 21.50 | 21.93 | 1 |
| | 1 | 24 | 21.82 | 21.94 | 22.37 | 0 | 20.78 | 20.90 | 21.33 | 1 |
| | 1 | 49 | 21.85 | 21.97 | 22.40 | 0 | 20.81 | 20.93 | 21.36 | 1 |
| | 25 | 0 | 21.38 | 21.50 | 21.93 | 1 | 20.34 | 20.46 | 20.89 | 2 |
| | 25 | 12 | 21.11 | 21.23 | 21.66 | 1 | 20.07 | 20.19 | 20.62 | 2 |
| | 25 | 25 | 21.12 | 21.24 | 21.67 | 1 | 20.08 | 20.20 | 20.63 | 2 |
| | 50 | 0 | 21.28 | 21.40 | 21.83 | 1 | 20.24 | 20.36 | 20.79 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 7 / 10M | 1 | 0 | 16.85 | 16.78 | 16.93 | 0 | 15.83 | 15.76 | 15.91 | 1 |
| | 1 | 24 | 16.12 | 16.05 | 16.20 | 0 | 15.10 | 15.03 | 15.18 | 1 |
| | 1 | 49 | 16.10 | 16.03 | 16.18 | 0 | 15.08 | 15.01 | 15.16 | 1 |
| | 25 | 0 | 15.58 | 15.51 | 15.66 | 1 | 14.56 | 14.49 | 14.64 | 2 |
| | 25 | 12 | 15.24 | 15.17 | 15.32 | 1 | 14.22 | 14.15 | 14.30 | 2 |
| | 25 | 25 | 15.34 | 15.27 | 15.42 | 1 | 14.32 | 14.25 | 14.40 | 2 |
| | 50 | 0 | 15.15 | 15.08 | 15.23 | 1 | 14.13 | 14.06 | 14.21 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20825 | Mid CH 21100 | High CH 21375 | | Low CH 20825 | Mid CH 21100 | High CH 21375 | |
| | | | 2507.5 MHz | 2535.0 MHz | 2562.5 MHz | | 2507.5 MHz | 2535.0 MHz | 2562.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 7 / 15M | 1 | 0 | 22.77 | 22.65 | 23.08 | 0 | 21.69 | 21.57 | 22.00 | 1 |
| | 1 | 37 | 21.93 | 22.05 | 22.48 | 0 | 20.85 | 20.97 | 21.40 | 1 |
| | 1 | 74 | 21.96 | 22.08 | 22.51 | 0 | 20.88 | 21.00 | 21.43 | 1 |
| | 36 | 0 | 21.49 | 21.61 | 22.04 | 1 | 20.41 | 20.53 | 20.96 | 2 |
| | 36 | 19 | 21.22 | 21.34 | 21.77 | 1 | 20.14 | 20.26 | 20.69 | 2 |
| | 36 | 39 | 21.23 | 21.35 | 21.78 | 1 | 20.15 | 20.27 | 20.70 | 2 |
| | 75 | 0 | 21.39 | 21.51 | 21.94 | 1 | 20.31 | 20.43 | 20.86 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 7 / 15M | 1 | 0 | 16.94 | 16.87 | 17.02 | 0 | 15.92 | 15.85 | 16.00 | 1 |
| | 1 | 37 | 16.21 | 16.14 | 16.29 | 0 | 15.19 | 15.12 | 15.27 | 1 |
| | 1 | 74 | 16.19 | 16.12 | 16.27 | 0 | 15.17 | 15.10 | 15.25 | 1 |
| | 36 | 0 | 15.67 | 15.60 | 15.75 | 1 | 14.65 | 14.58 | 14.73 | 2 |
| | 36 | 19 | 15.33 | 15.26 | 15.41 | 1 | 14.31 | 14.24 | 14.39 | 2 |
| | 36 | 39 | 15.43 | 15.36 | 15.51 | 1 | 14.41 | 14.34 | 14.49 | 2 |
| | 75 | 0 | 15.24 | 15.17 | 15.32 | 1 | 14.22 | 14.15 | 14.30 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 20850 | Mid CH 21100 | High CH 21350 | | Low CH 20850 | Mid CH 21100 | High CH 21350 | |
| | | | 2510.0 MHz | 2535.0 MHz | 2560.0 MHz | | 2510.0 MHz | 2535.0 MHz | 2560.0 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 7 / 20M | 1 | 0 | 22.94 | 22.82 | 23.25 | 0 | 21.91 | 21.79 | 22.22 | 1 |
| | 1 | 50 | 22.10 | 22.22 | 22.65 | 0 | 21.07 | 21.19 | 21.62 | 1 |
| | 1 | 99 | 22.13 | 22.25 | 22.68 | 0 | 21.10 | 21.22 | 21.65 | 1 |
| | 50 | 0 | 21.66 | 21.78 | 22.21 | 1 | 20.63 | 20.75 | 21.18 | 2 |
| | 50 | 25 | 21.39 | 21.51 | 21.94 | 1 | 20.36 | 20.48 | 20.91 | 2 |
| | 50 | 50 | 21.40 | 21.52 | 21.95 | 1 | 20.37 | 20.49 | 20.92 | 2 |
| | 100 | 0 | 21.56 | 21.68 | 22.11 | 1 | 20.53 | 20.65 | 21.08 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 7 / 20M | 1 | 0 | 17.05 | 16.98 | 17.13 | 0 | 16.03 | 15.96 | 16.11 | 1 |
| | 1 | 50 | 16.32 | 16.25 | 16.40 | 0 | 15.30 | 15.23 | 15.38 | 1 |
| | 1 | 99 | 16.30 | 16.23 | 16.38 | 0 | 15.28 | 15.21 | 15.36 | 1 |
| | 50 | 0 | 15.78 | 15.71 | 15.86 | 1 | 14.76 | 14.69 | 14.84 | 2 |
| | 50 | 25 | 15.44 | 15.37 | 15.52 | 1 | 14.42 | 14.35 | 14.50 | 2 |
| | 50 | 50 | 15.54 | 15.47 | 15.62 | 1 | 14.52 | 14.45 | 14.60 | 2 |
| | 100 | 0 | 15.35 | 15.28 | 15.43 | 1 | 14.33 | 14.26 | 14.41 | 2 |



FCC SAR Test Report

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| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 23205 | Mid CH 23230 | High CH 23255 | | Low CH 23205 | Mid CH 23230 | High CH 23255 | |
| | | | 779.5 MHz | 782.0 MHz | 784.5 MHz | | 779.5 MHz | 782.0 MHz | 784.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 13 / 5M | 1 | 0 | 22.93 | 22.85 | 22.74 | 0 | 21.91 | 21.83 | 21.72 | 1 |
| | 1 | 12 | 23.11 | 23.03 | 22.92 | 0 | 22.09 | 22.01 | 21.90 | 1 |
| | 1 | 24 | 22.61 | 22.53 | 22.42 | 0 | 21.59 | 21.51 | 21.40 | 1 |
| | 12 | 0 | 22.44 | 22.36 | 22.25 | 1 | 21.42 | 21.34 | 21.23 | 2 |
| | 12 | 6 | 22.33 | 22.25 | 22.14 | 1 | 21.31 | 21.23 | 21.12 | 2 |
| | 12 | 13 | 22.29 | 22.21 | 22.10 | 1 | 21.27 | 21.19 | 21.08 | 2 |
| | 25 | 0 | 22.35 | 22.27 | 22.16 | 1 | 21.33 | 21.25 | 21.14 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 13 / 5M | 1 | 0 | 19.54 | 19.22 | 19.66 | 0 | 18.52 | 18.20 | 18.64 | 1 |
| | 1 | 12 | 19.56 | 18.91 | 19.56 | 0 | 18.54 | 17.89 | 18.54 | 1 |
| | 1 | 24 | 19.65 | 18.52 | 19.59 | 0 | 18.63 | 17.50 | 18.57 | 1 |
| | 12 | 0 | 18.74 | 17.84 | 18.74 | 1 | 17.72 | 16.82 | 17.72 | 2 |
| | 12 | 6 | 18.78 | 17.67 | 18.68 | 1 | 17.76 | 16.65 | 17.66 | 2 |
| | 12 | 13 | 18.78 | 17.57 | 18.68 | 1 | 17.76 | 16.55 | 17.66 | 2 |
| | 25 | 0 | 18.76 | 17.63 | 18.68 | 1 | 17.74 | 16.61 | 17.66 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | 3GPP MPR (dB) | 16QAM | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--|---------------|--------------|--|---------------|
| | | | Mid CH 23230 | | | Mid CH 23230 | | |
| | | | 782.0 MHz | | | 782.0 MHz | | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | |
| 13 / 10M | 1 | 0 | 22.97 | | 0 | 21.95 | | 1 |
| | 1 | 24 | 23.15 | | 0 | 22.13 | | 1 |
| | 1 | 49 | 22.65 | | 0 | 21.63 | | 1 |
| | 25 | 0 | 22.18 | | 1 | 21.46 | | 2 |
| | 25 | 12 | 22.07 | | 1 | 21.35 | | 2 |
| | 25 | 25 | 22.13 | | 1 | 21.31 | | 2 |
| | 50 | 0 | 22.39 | | 1 | 21.37 | | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | |
| 13 / 10M | 1 | 0 | 19.31 | | 0 | 18.42 | | 1 |
| | 1 | 24 | 19.42 | | 0 | 18.77 | | 1 |
| | 1 | 49 | 19.35 | | 0 | 18.09 | | 1 |
| | 25 | 0 | 18.43 | | 1 | 17.75 | | 2 |
| | 25 | 12 | 18.36 | | 1 | 17.53 | | 2 |
| | 25 | 25 | 18.30 | | 1 | 17.65 | | 2 |
| | 50 | 0 | 18.36 | | 1 | 17.76 | | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 23755 | Mid CH 23790 | High CH 23825 | | Low CH 23755 | Mid CH 23790 | High CH 23825 | |
| | | | 706.5 MHz | 710.0 MHz | 713.5 MHz | | 706.5 MHz | 710.0 MHz | 713.5 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 17 / 5M | 1 | 0 | 23.19 | 23.44 | 23.38 | 0 | 22.16 | 22.41 | 22.35 | 1 |
| | 1 | 12 | 23.39 | 23.43 | 23.42 | 0 | 22.36 | 22.40 | 22.39 | 1 |
| | 1 | 24 | 23.24 | 23.29 | 23.27 | 0 | 22.21 | 22.26 | 22.24 | 1 |
| | 12 | 0 | 22.40 | 22.46 | 22.42 | 1 | 21.37 | 21.43 | 21.39 | 2 |
| | 12 | 6 | 22.37 | 22.44 | 22.40 | 1 | 21.34 | 21.41 | 21.37 | 2 |
| | 12 | 13 | 22.34 | 22.37 | 22.35 | 1 | 21.31 | 21.34 | 21.32 | 2 |
| | 25 | 0 | 22.36 | 22.41 | 22.39 | 1 | 21.33 | 21.38 | 21.36 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 17 / 5M | 1 | 0 | 20.63 | 20.70 | 20.69 | 0 | 19.59 | 19.66 | 19.65 | 1 |
| | 1 | 12 | 19.79 | 20.13 | 20.67 | 0 | 18.75 | 19.09 | 19.63 | 1 |
| | 1 | 24 | 20.61 | 20.05 | 20.42 | 0 | 19.57 | 19.01 | 19.38 | 1 |
| | 12 | 0 | 19.70 | 19.75 | 18.72 | 1 | 18.66 | 18.71 | 17.68 | 2 |
| | 12 | 6 | 19.66 | 18.71 | 19.69 | 1 | 18.62 | 17.67 | 18.65 | 2 |
| | 12 | 13 | 19.62 | 18.60 | 19.61 | 1 | 18.58 | 17.56 | 18.57 | 2 |
| | 25 | 0 | 19.67 | 18.71 | 19.68 | 1 | 18.63 | 17.67 | 18.64 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|---|---------|-----------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|
| | | | Low CH 23780 | Mid CH 23790 | High CH 23800 | | Low CH 23780 | Mid CH 23790 | High CH 23800 | |
| | | | 709.0 MHz | 710.0 MHz | 711.0 MHz | | 709.0 MHz | 710.0 MHz | 711.0 MHz | |
| EUT without Power Reduction (P-Sensor NOT Triggered) | | | | | | | | | | |
| 17 / 10M | 1 | 0 | 23.33 | 23.58 | 23.52 | 0 | 22.30 | 22.55 | 22.49 | 1 |
| | 1 | 24 | 23.53 | 23.57 | 23.56 | 0 | 22.50 | 22.54 | 22.53 | 1 |
| | 1 | 49 | 23.38 | 23.43 | 23.41 | 0 | 22.35 | 22.40 | 22.38 | 1 |
| | 25 | 0 | 22.54 | 22.60 | 22.56 | 1 | 21.51 | 21.57 | 21.53 | 2 |
| | 25 | 12 | 22.51 | 22.58 | 22.54 | 1 | 21.48 | 21.55 | 21.51 | 2 |
| | 25 | 25 | 22.48 | 22.51 | 22.49 | 1 | 21.45 | 21.48 | 21.46 | 2 |
| | 50 | 0 | 22.50 | 22.55 | 22.53 | 1 | 21.47 | 21.52 | 21.50 | 2 |
| EUT with Power Reduction (P-Sensor Triggered) | | | | | | | | | | |
| 17 / 10M | 1 | 0 | 20.74 | 20.81 | 20.80 | 0 | 19.70 | 19.77 | 19.76 | 1 |
| | 1 | 24 | 19.90 | 20.24 | 20.78 | 0 | 18.86 | 19.20 | 19.74 | 1 |
| | 1 | 49 | 20.72 | 20.16 | 20.53 | 0 | 19.68 | 19.12 | 19.49 | 1 |
| | 25 | 0 | 19.81 | 19.86 | 18.83 | 1 | 18.77 | 18.82 | 17.79 | 2 |
| | 25 | 12 | 19.77 | 18.82 | 19.80 | 1 | 18.73 | 17.78 | 18.76 | 2 |
| | 25 | 25 | 19.73 | 18.71 | 19.72 | 1 | 18.69 | 17.67 | 18.68 | 2 |
| | 50 | 0 | 19.78 | 18.82 | 19.79 | 1 | 18.74 | 17.78 | 18.75 | 2 |

<WLAN 2.4G>

| Mode | 802.11b | | |
|---------------------------|----------------|----------|-----------|
| Channel / Frequency (MHz) | 1 (2412) | 6 (2437) | 11 (2462) |
| Average Power | 15.77 | 15.45 | 15.94 |
| Mode | 802.11g | | |
| Channel / Frequency (MHz) | 1 (2412) | 6 (2437) | 11 (2462) |
| Average Power | 12.38 | 12.56 | 12.59 |
| Mode | 802.11n (HT20) | | |
| Channel / Frequency (MHz) | 1 (2412) | 6 (2437) | 11 (2462) |
| Average Power | 11.82 | 11.72 | 11.98 |
| Mode | 802.11n (HT40) | | |
| Channel / Frequency (MHz) | 3 (2422) | 6 (2437) | 9 (2452) |
| Average Power | 12.31 | 12.67 | 12.88 |

<WLAN 5.2G>

| Mode | 802.11a | | | |
|---------------------------|----------------|-----------|-----------|-----------|
| Channel / Frequency (MHz) | 36 (5180) | 40 (5200) | 44 (5220) | 48 (5240) |
| Average Power | 11.81 | 11.80 | 11.79 | 11.75 |
| Mode | 802.11n (HT20) | | | |
| Channel / Frequency (MHz) | 36 (5180) | 40 (5200) | 44 (5220) | 48 (5240) |
| Average Power | 11.88 | 11.77 | 11.66 | 11.52 |
| Mode | 802.11n (HT40) | | | |
| Channel / Frequency (MHz) | 38 (5190) | | 46 (5230) | |
| Average Power | 11.08 | | 10.93 | |

<WLAN 5.3G>

| Mode | 802.11a | | | |
|---------------------------|----------------|-----------|-----------|-----------|
| Channel / Frequency (MHz) | 52 (5260) | 56 (5280) | 60 (5300) | 64 (5320) |
| Average Power | 11.74 | 11.66 | 11.79 | 11.55 |
| Mode | 802.11n (HT20) | | | |
| Channel / Frequency (MHz) | 52 (5260) | 56 (5280) | 60 (5300) | 64 (5320) |
| Average Power | 11.57 | 11.47 | 11.51 | 11.21 |
| Mode | 802.11n (HT40) | | | |
| Channel / Frequency (MHz) | 54 (5270) | | 62 (5310) | |
| Average Power | 10.89 | | 10.77 | |

<WLAN 5.6G>

| Mode | 802.11a | | | | | | | |
|---------------------------|----------------|------------|------------|------------|------------|------------|------------|------------|
| Channel / Frequency (MHz) | 100 (5500) | 104 (5520) | 108 (5540) | 112 (5560) | 116 (5580) | 132 (5660) | 136 (5680) | 140 (5700) |
| Average Power | 11.52 | 11.52 | 11.35 | 11.12 | 12.72 | 12.42 | 12.29 | 13.08 |
| Mode | 802.11n (HT20) | | | | | | | |
| Channel / Frequency (MHz) | 100 (5500) | 104 (5520) | 108 (5540) | 112 (5560) | 116 (5580) | 132 (5660) | 136 (5680) | 140 (5700) |
| Average Power | 11.61 | 11.14 | 11.03 | 12.73 | 12.74 | 12.15 | 12.08 | 12.98 |
| Mode | 802.11n (HT40) | | | | | | | |
| Channel / Frequency (MHz) | 102 (5510) | | | | 134 (5670) | | | |
| Average Power | 10.67 | | | | 10.52 | | | |

FCC SAR Test Report

<WLAN 5.8G>

| Mode | 802.11a | | | | |
|---------------------------|----------------|------------|------------|------------|------------|
| Channel / Frequency (MHz) | 149 (5745) | 153 (5765) | 157 (5785) | 161 (5805) | 165 (5825) |
| Average Power | 12.72 | 12.68 | 12.78 | 12.62 | 12.74 |
| Mode | 802.11n (HT20) | | | | |
| Channel / Frequency (MHz) | 149 (5745) | 153 (5765) | 157 (5785) | 161 (5805) | 165 (5825) |
| Average Power | 11.61 | 11.58 | 11.51 | 11.53 | 11.47 |
| Mode | 802.11n (HT40) | | | | |
| Channel / Frequency (MHz) | 151 (5755) | | 159 (5795) | | |
| Average Power | 11.89 | | 11.82 | | |

<Bluetooth>

| Mode | Bluetooth | | |
|---------------------------|-----------|-----------|-----------|
| Channel / Frequency (MHz) | 0 (2402) | 39 (2441) | 78 (2480) |
| Average Power | 5.41 | 6.69 | 5.59 |

4.7 SAR Testing Results

4.7.1 SAR Results for Body

| Plot No. | Band | Mode | Test Position | Separation Distance (mm) | Ch. | Power Reduction | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) | |
|----------|----------|----------|---------------|--------------------------|------|-----------------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|-------------|
| 01 | GSM850 | GPRS10 | Rear Face | 0 | 189 | w/ | 24.5 | 24.26 | 1.06 | 0.16 | 0.662 | 0.70 | |
| | GSM850 | GPRS11 | Rear Face | 14 | 189 | w/o | 30.5 | 29.49 | 1.26 | 0.02 | 0.466 | 0.59 | |
| | GSM850 | GPRS11 | Left Side | 0 | 189 | w/o | 30.5 | 29.49 | 1.26 | -0.16 | 0.127 | 0.16 | |
| | GSM850 | GPRS10 | Top Side | 0 | 189 | w/ | 24.5 | 24.26 | 1.06 | 0.12 | 0.471 | 0.50 | |
| | GSM850 | GPRS11 | Top Side | 15 | 189 | w/o | 30.5 | 29.49 | 1.26 | 0.03 | 0.378 | 0.48 | |
| | GSM1900 | GPRS10 | Rear Face | 0 | 661 | w/ | 24.5 | 24.31 | 1.04 | 0.03 | 0.997 | 1.04 | |
| | GSM1900 | GPRS11 | Rear Face | 14 | 661 | w/o | 27.5 | 26.30 | 1.32 | 0.07 | 0.312 | 0.41 | |
| | GSM1900 | GPRS11 | Left Side | 0 | 661 | w/o | 27.5 | 26.30 | 1.32 | 0.11 | 0.091 | 0.12 | |
| | GSM1900 | GPRS10 | Top Side | 0 | 661 | w/ | 24.5 | 24.31 | 1.04 | 0.12 | 0.618 | 0.65 | |
| | GSM1900 | GPRS11 | Top Side | 15 | 661 | w/o | 27.5 | 26.30 | 1.32 | 0.05 | 0.434 | 0.57 | |
| 02 | GSM1900 | GPRS10 | Rear Face | 0 | 512 | w/ | 24.5 | 23.98 | 1.13 | 0.18 | 0.99 | 1.12 | |
| | GSM1900 | GPRS10 | Rear Face | 0 | 810 | w/ | 24.5 | 24.09 | 1.10 | 0.17 | 1.08 | 1.19 | |
| | WCDMA II | RMC12.2K | Rear Face | 0 | 9400 | w/ | 17.5 | 17.07 | 1.10 | 0.18 | 0.93 | 1.03 | |
| | WCDMA II | RMC12.2K | Rear Face | 14 | 9400 | w/o | 24.5 | 23.34 | 1.31 | -0.01 | 0.642 | 0.84 | |
| | WCDMA II | RMC12.2K | Left Side | 0 | 9400 | w/o | 24.5 | 23.34 | 1.31 | 0.06 | 0.161 | 0.21 | |
| | WCDMA II | RMC12.2K | Top Side | 0 | 9400 | w/ | 17.5 | 17.07 | 1.10 | 0.07 | 0.598 | 0.66 | |
| | WCDMA II | RMC12.2K | Top Side | 15 | 9400 | w/o | 24.5 | 23.34 | 1.31 | 0.12 | 0.862 | 1.13 | |
| | WCDMA II | RMC12.2K | Rear Face | 0 | 9262 | w/ | 17.5 | 17.04 | 1.11 | 0.19 | 0.921 | 1.02 | |
| | 03 | WCDMA II | RMC12.2K | Rear Face | 0 | 9538 | w/ | 17.5 | 16.90 | 1.15 | 0.15 | 0.935 | 1.07 |
| | | WCDMA II | RMC12.2K | Top Side | 15 | 9262 | w/o | 24.5 | 23.27 | 1.33 | 0.14 | 0.888 | 1.18 |
| | | WCDMA II | RMC12.2K | Top Side | 15 | 9538 | w/o | 24.5 | 23.15 | 1.36 | 0.18 | 0.727 | 0.99 |
| | | WCDMA II | RMC12.2K | Rear Face | 0 | 9538 | w/ | 17.5 | 16.90 | 1.15 | 0.05 | 0.915 | 1.05 |
| WCDMA IV | | RMC12.2K | Rear Face | 0 | 1413 | w/ | 18.5 | 18.43 | 1.02 | 0.11 | 0.971 | 0.99 | |
| WCDMA IV | | RMC12.2K | Rear Face | 14 | 1413 | w/o | 24.5 | 23.81 | 1.17 | 0.03 | 0.57 | 0.67 | |
| WCDMA IV | | RMC12.2K | Left Side | 0 | 1413 | w/o | 24.5 | 23.81 | 1.17 | 0.08 | 0.105 | 0.12 | |
| WCDMA IV | | RMC12.2K | Top Side | 0 | 1413 | w/ | 18.5 | 18.43 | 1.02 | -0.11 | 0.744 | 0.76 | |
| WCDMA IV | | RMC12.2K | Top Side | 15 | 1413 | w/o | 24.5 | 23.81 | 1.17 | -0.10 | 0.988 | 1.16 | |
| WCDMA IV | | RMC12.2K | Rear Face | 0 | 1312 | w/ | 18.5 | 18.18 | 1.08 | 0.13 | 1 | 1.08 | |
| WCDMA IV | | RMC12.2K | Rear Face | 0 | 1513 | w/ | 18.5 | 18.10 | 1.10 | 0.17 | 0.96 | 1.05 | |
| WCDMA IV | | RMC12.2K | Top Side | 15 | 1312 | w/o | 24.5 | 23.72 | 1.20 | 0.02 | 0.961 | 1.15 | |
| 04 | WCDMA IV | RMC12.2K | Top Side | 15 | 1513 | w/o | 24.5 | 23.71 | 1.20 | -0.12 | 0.993 | 1.19 | |
| | WCDMA IV | RMC12.2K | Top Side | 15 | 1513 | w/o | 24.5 | 23.71 | 1.20 | -0.04 | 0.969 | 1.16 | |
| 05 | WCDMA V | RMC12.2K | Rear Face | 0 | 4233 | w/ | 18.0 | 17.82 | 1.04 | 0.10 | 0.574 | 0.60 | |
| | WCDMA V | RMC12.2K | Rear Face | 14 | 4233 | w/o | 24.5 | 23.60 | 1.23 | 0.12 | 0.432 | 0.53 | |
| | WCDMA V | RMC12.2K | Left Side | 0 | 4233 | w/o | 24.5 | 23.60 | 1.23 | -0.18 | 0.111 | 0.14 | |
| | WCDMA V | RMC12.2K | Top Side | 0 | 4233 | w/ | 18.0 | 17.82 | 1.04 | -0.18 | 0.493 | 0.51 | |
| | WCDMA V | RMC12.2K | Top Side | 15 | 4233 | w/o | 24.5 | 23.60 | 1.23 | 0.11 | 0.359 | 0.44 | |



FCC SAR Test Report

| Plot No. | Band | Mode | Test Position | Separation Distance (mm) | Ch. | Power Reduction | RB# | RB Offset | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|-------|---------|---------------|--------------------------|-------|-----------------|-----|-----------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| | LTE 2 | QPSK20M | Rear Face | 0 | 18700 | w/ | 1 | 0 | 17.5 | 17.38 | 1.03 | 0.16 | 0.932 | 0.96 |
| | LTE 2 | QPSK20M | Rear Face | 14 | 18900 | w/o | 1 | 0 | 24.0 | 23.70 | 1.07 | 0.07 | 0.691 | 0.74 |
| | LTE 2 | QPSK20M | Left Side | 0 | 18900 | w/o | 1 | 0 | 24.0 | 23.70 | 1.07 | -0.02 | 0.231 | 0.25 |
| | LTE 2 | QPSK20M | Top Side | 0 | 18700 | w/ | 1 | 0 | 17.5 | 17.38 | 1.03 | 0.10 | 0.509 | 0.52 |
| | LTE 2 | QPSK20M | Top Side | 15 | 18900 | w/o | 1 | 0 | 24.0 | 23.70 | 1.07 | 0.06 | 1.01 | 1.08 |
| | LTE 2 | QPSK20M | Rear Face | 0 | 18900 | w/ | 50 | 0 | 16.5 | 16.28 | 1.05 | 0.11 | 0.971 | 1.02 |
| | LTE 2 | QPSK20M | Rear Face | 14 | 18900 | w/o | 50 | 0 | 23.0 | 22.68 | 1.08 | 0.08 | 0.556 | 0.60 |
| | LTE 2 | QPSK20M | Left Side | 0 | 18900 | w/o | 50 | 0 | 23.0 | 22.68 | 1.08 | -0.04 | 0.186 | 0.20 |
| | LTE 2 | QPSK20M | Top Side | 0 | 18900 | w/ | 50 | 0 | 16.5 | 16.28 | 1.05 | 0.02 | 0.432 | 0.45 |
| | LTE 2 | QPSK20M | Top Side | 15 | 18900 | w/o | 50 | 0 | 23.0 | 22.68 | 1.08 | 0.10 | 0.831 | 0.89 |
| | LTE 2 | QPSK20M | Rear Face | 0 | 18900 | w/ | 1 | 0 | 17.5 | 17.16 | 1.08 | 0.15 | 0.91 | 0.98 |
| | LTE 2 | QPSK20M | Rear Face | 0 | 19100 | w/ | 1 | 0 | 17.5 | 17.07 | 1.10 | 0.14 | 0.89 | 0.98 |
| 06 | LTE 2 | QPSK20M | Top Side | 15 | 18700 | w/o | 1 | 0 | 24.0 | 23.57 | 1.10 | -0.02 | 1.06 | 1.17 |
| | LTE 2 | QPSK20M | Top Side | 15 | 19100 | w/o | 1 | 0 | 24.0 | 23.65 | 1.08 | 0.02 | 0.962 | 1.04 |
| | LTE 2 | QPSK20M | Rear Face | 0 | 18700 | w/ | 50 | 0 | 16.5 | 16.08 | 1.10 | 0.11 | 0.932 | 1.03 |
| | LTE 2 | QPSK20M | Rear Face | 0 | 19100 | w/ | 50 | 0 | 16.5 | 16.26 | 1.06 | 0.16 | 0.98 | 1.04 |
| | LTE 2 | QPSK20M | Top Side | 15 | 18700 | w/o | 50 | 0 | 23.0 | 22.59 | 1.10 | 0.16 | 0.797 | 0.88 |
| | LTE 2 | QPSK20M | Top Side | 15 | 19100 | w/o | 50 | 0 | 23.0 | 22.61 | 1.09 | 0.17 | 0.88 | 0.96 |
| | LTE 2 | QPSK20M | Rear Face | 0 | 18700 | w/ | 100 | 0 | 16.5 | 15.94 | 1.14 | -0.08 | 0.906 | 1.03 |
| | LTE 2 | QPSK20M | Top Side | 15 | 18900 | w/o | 100 | 0 | 23.0 | 22.51 | 1.12 | 0.05 | 0.82 | 0.92 |
| | LTE 2 | QPSK20M | Top Side | 15 | 18700 | w/o | 1 | 0 | 24.0 | 23.57 | 1.10 | 0.06 | 1 | 1.10 |
| | LTE 4 | QPSK20M | Rear Face | 0 | 20300 | w/ | 1 | 0 | 18.5 | 18.44 | 1.01 | 0.18 | 1.07 | 1.08 |
| | LTE 4 | QPSK20M | Rear Face | 14 | 20300 | w/o | 1 | 0 | 24.0 | 23.62 | 1.09 | 0.06 | 0.722 | 0.79 |
| | LTE 4 | QPSK20M | Left Side | 0 | 20300 | w/o | 1 | 0 | 24.0 | 23.62 | 1.09 | 0.03 | 0.120 | 0.13 |
| | LTE 4 | QPSK20M | Top Side | 0 | 20300 | w/ | 1 | 0 | 18.5 | 18.44 | 1.01 | 0.11 | 0.842 | 0.85 |
| 07 | LTE 4 | QPSK20M | Top Side | 15 | 20300 | w/o | 1 | 0 | 24.0 | 23.62 | 1.09 | 0.07 | 1.1 | 1.20 |
| | LTE 4 | QPSK20M | Rear Face | 0 | 20300 | w/ | 50 | 0 | 17.5 | 17.29 | 1.05 | 0.10 | 0.865 | 0.91 |
| | LTE 4 | QPSK20M | Rear Face | 14 | 20300 | w/o | 50 | 0 | 23.0 | 22.62 | 1.09 | 0.05 | 0.589 | 0.64 |
| | LTE 4 | QPSK20M | Left Side | 0 | 20300 | w/o | 50 | 0 | 23.0 | 22.62 | 1.09 | 0.08 | 0.097 | 0.11 |
| | LTE 4 | QPSK20M | Top Side | 0 | 20300 | w/ | 50 | 0 | 17.5 | 17.29 | 1.05 | 0.01 | 0.659 | 0.69 |
| | LTE 4 | QPSK20M | Top Side | 15 | 20300 | w/o | 50 | 0 | 23.0 | 22.62 | 1.09 | 0.14 | 0.981 | 1.07 |
| | LTE 4 | QPSK20M | Rear Face | 0 | 20050 | w/ | 1 | 0 | 18.5 | 18.37 | 1.03 | 0.18 | 0.739 | 0.76 |
| | LTE 4 | QPSK20M | Rear Face | 0 | 20175 | w/ | 1 | 0 | 18.5 | 17.65 | 1.22 | 0.15 | 0.765 | 0.93 |
| | LTE 4 | QPSK20M | Top Side | 0 | 20050 | w/ | 1 | 0 | 18.5 | 18.37 | 1.03 | 0.13 | 0.71 | 0.73 |
| | LTE 4 | QPSK20M | Top Side | 0 | 20175 | w/ | 1 | 0 | 18.5 | 17.65 | 1.22 | 0.13 | 0.602 | 0.73 |
| | LTE 4 | QPSK20M | Top Side | 15 | 20050 | w/o | 1 | 0 | 24.0 | 23.52 | 1.12 | 0.17 | 0.918 | 1.03 |
| | LTE 4 | QPSK20M | Top Side | 15 | 20175 | w/o | 1 | 0 | 24.0 | 23.54 | 1.11 | 0.16 | 0.836 | 0.93 |
| | LTE 4 | QPSK20M | Rear Face | 0 | 20050 | w/ | 50 | 0 | 17.5 | 17.08 | 1.10 | -0.15 | 0.751 | 0.83 |
| | LTE 4 | QPSK20M | Rear Face | 0 | 20175 | w/ | 50 | 0 | 17.5 | 16.30 | 1.32 | -0.11 | 0.618 | 0.81 |
| | LTE 4 | QPSK20M | Rear Face | 0 | 20300 | w/ | 100 | 0 | 17.5 | 17.13 | 1.09 | -0.02 | 0.848 | 0.92 |
| | LTE 4 | QPSK20M | Top Side | 0 | 20300 | w/ | 100 | 0 | 17.5 | 17.13 | 1.09 | 0.10 | 0.635 | 0.69 |
| | LTE 4 | QPSK20M | Top Side | 15 | 20300 | w/o | 100 | 0 | 23.0 | 22.50 | 1.12 | -0.16 | 0.96 | 1.08 |
| | LTE 4 | QPSK20M | Top Side | 15 | 20300 | w/o | 1 | 0 | 24.0 | 23.62 | 1.09 | 0.15 | 1.06 | 1.16 |
| 08 | LTE 5 | QPSK10M | Rear Face | 0 | 20450 | w/ | 1 | 0 | 18.0 | 17.96 | 1.01 | 0.19 | 0.628 | 0.63 |
| | LTE 5 | QPSK10M | Rear Face | 14 | 20450 | w/o | 1 | 0 | 24.0 | 23.72 | 1.07 | 0.17 | 0.361 | 0.39 |
| | LTE 5 | QPSK10M | Left Side | 0 | 20450 | w/o | 1 | 0 | 24.0 | 23.72 | 1.07 | -0.02 | 0.111 | 0.12 |
| | LTE 5 | QPSK10M | Top Side | 0 | 20450 | w/ | 1 | 0 | 18.0 | 17.96 | 1.01 | 0.19 | 0.492 | 0.50 |
| | LTE 5 | QPSK10M | Top Side | 15 | 20450 | w/o | 1 | 0 | 24.0 | 23.72 | 1.07 | 0.19 | 0.297 | 0.32 |
| | LTE 5 | QPSK10M | Rear Face | 0 | 20450 | w/ | 25 | 0 | 17.0 | 17.00 | 1.00 | 0.19 | 0.551 | 0.55 |
| | LTE 5 | QPSK10M | Rear Face | 14 | 20450 | w/o | 25 | 0 | 23.0 | 22.80 | 1.05 | -0.06 | 0.317 | 0.33 |
| | LTE 5 | QPSK10M | Left Side | 0 | 20450 | w/o | 25 | 0 | 23.0 | 22.80 | 1.05 | 0.08 | 0.108 | 0.11 |
| | LTE 5 | QPSK10M | Top Side | 0 | 20450 | w/ | 25 | 0 | 17.0 | 17.00 | 1.00 | 0.15 | 0.469 | 0.47 |
| | LTE 5 | QPSK10M | Top Side | 15 | 20450 | w/o | 25 | 0 | 23.0 | 22.80 | 1.05 | 0.04 | 0.243 | 0.25 |



FCC SAR Test Report

| Plot No. | Band | Mode | Test Position | Separation Distance (mm) | Ch. | Power Reduction | RB# | RB Offset | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|--------|---------|---------------|--------------------------|-------|-----------------|-----|-----------|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 09 | LTE 7 | QPSK20M | Rear Face | 0 | 21350 | w/ | 1 | 0 | 17.5 | 17.13 | 1.09 | 0.01 | 0.859 | 0.94 |
| | LTE 7 | QPSK20M | Rear Face | 14 | 21350 | w/o | 1 | 0 | 24.0 | 23.25 | 1.19 | 0.15 | 0.28 | 0.33 |
| | LTE 7 | QPSK20M | Left Side | 0 | 21350 | w/o | 1 | 0 | 24.0 | 23.25 | 1.19 | 0.11 | 0.023 | 0.03 |
| | LTE 7 | QPSK20M | Top Side | 0 | 21350 | w/ | 1 | 0 | 17.5 | 17.13 | 1.09 | 0.05 | 0.494 | 0.54 |
| | LTE 7 | QPSK20M | Top Side | 15 | 21350 | w/o | 1 | 0 | 24.0 | 23.25 | 1.19 | 0.06 | 0.329 | 0.39 |
| | LTE 7 | QPSK20M | Rear Face | 0 | 21350 | w/ | 50 | 0 | 16.5 | 15.86 | 1.16 | -0.01 | 0.677 | 0.79 |
| | LTE 7 | QPSK20M | Rear Face | 14 | 21350 | w/o | 50 | 0 | 23.0 | 22.21 | 1.20 | -0.11 | 0.298 | 0.36 |
| | LTE 7 | QPSK20M | Left Side | 0 | 21350 | w/o | 50 | 0 | 23.0 | 22.21 | 1.20 | 0.11 | 0.023 | 0.03 |
| | LTE 7 | QPSK20M | Top Side | 0 | 21350 | w/ | 50 | 0 | 16.5 | 15.86 | 1.16 | 0.11 | 0.344 | 0.40 |
| | LTE 7 | QPSK20M | Top Side | 15 | 21350 | w/o | 50 | 0 | 23.0 | 22.21 | 1.20 | 0.03 | 0.368 | 0.44 |
| | LTE 7 | QPSK20M | Rear Face | 0 | 20850 | w/ | 1 | 0 | 17.5 | 17.05 | 1.11 | 0.01 | 0.802 | 0.89 |
| | LTE 7 | QPSK20M | Rear Face | 0 | 21100 | w/ | 1 | 0 | 17.5 | 16.98 | 1.13 | -0.04 | 0.742 | 0.84 |
| | LTE 7 | QPSK20M | Rear Face | 0 | 21350 | w/ | 100 | 0 | 16.5 | 15.43 | 1.28 | 0.03 | 0.615 | 0.79 |
| | LTE 7 | QPSK20M | Rear Face | 0 | 21350 | w/ | 1 | 0 | 17.5 | 17.13 | 1.09 | -0.08 | 0.832 | 0.91 |
| 10 | LTE 13 | QPSK10M | Rear Face | 0 | 23230 | w/ | 1 | 24 | 19.5 | 19.42 | 1.02 | 0.19 | 0.828 | 0.84 |
| | LTE 13 | QPSK10M | Rear Face | 14 | 23230 | w/o | 1 | 24 | 24.0 | 23.15 | 1.22 | -0.18 | 0.321 | 0.39 |
| | LTE 13 | QPSK10M | Left Side | 0 | 23230 | w/o | 1 | 24 | 24.0 | 23.15 | 1.22 | 0.04 | 0.082 | 0.10 |
| | LTE 13 | QPSK10M | Top Side | 0 | 23230 | w/ | 1 | 24 | 19.5 | 19.42 | 1.02 | 0.11 | 0.772 | 0.79 |
| | LTE 13 | QPSK10M | Top Side | 15 | 23230 | w/o | 1 | 24 | 24.0 | 23.15 | 1.22 | 0.01 | 0.261 | 0.32 |
| | LTE 13 | QPSK10M | Rear Face | 0 | 23230 | w/ | 25 | 0 | 18.5 | 18.43 | 1.02 | -0.13 | 0.756 | 0.77 |
| | LTE 13 | QPSK10M | Rear Face | 14 | 23230 | w/o | 25 | 0 | 23.0 | 22.18 | 1.21 | 0.09 | 0.271 | 0.33 |
| | LTE 13 | QPSK10M | Left Side | 0 | 23230 | w/o | 25 | 0 | 23.0 | 22.18 | 1.21 | -0.07 | 0.066 | 0.08 |
| | LTE 13 | QPSK10M | Top Side | 0 | 23230 | w/ | 25 | 0 | 18.5 | 18.43 | 1.02 | -0.03 | 0.658 | 0.67 |
| | LTE 13 | QPSK10M | Top Side | 15 | 23230 | w/o | 25 | 0 | 23.0 | 22.18 | 1.21 | 0.03 | 0.217 | 0.26 |
| | LTE 13 | QPSK10M | Rear Face | 0 | 23230 | w/ | 1 | 0 | 19.5 | 19.31 | 1.04 | 0.11 | 0.795 | 0.83 |
| | LTE 13 | QPSK10M | Rear Face | 0 | 23230 | w/ | 1 | 49 | 19.5 | 19.35 | 1.04 | 0.11 | 0.806 | 0.83 |
| | LTE 13 | QPSK10M | Rear Face | 0 | 23230 | w/ | 50 | 0 | 18.5 | 18.36 | 1.03 | -0.04 | 0.747 | 0.77 |
| | LTE 13 | QPSK10M | Rear Face | 0 | 23230 | w/ | 1 | 24 | 19.5 | 19.42 | 1.02 | 0.11 | 0.825 | 0.84 |
| | LTE 17 | QPSK10M | Rear Face | 0 | 23790 | w/ | 1 | 0 | 21.0 | 20.81 | 1.04 | 0.18 | 0.918 | 0.96 |
| | LTE 17 | QPSK10M | Rear Face | 14 | 23790 | w/o | 1 | 0 | 24.0 | 23.58 | 1.10 | 0.13 | 0.214 | 0.24 |
| | LTE 17 | QPSK10M | Left Side | 0 | 23790 | w/o | 1 | 0 | 24.0 | 23.58 | 1.10 | -0.14 | 0.085 | 0.09 |
| | LTE 17 | QPSK10M | Top Side | 0 | 23790 | w/ | 1 | 0 | 21.0 | 20.81 | 1.04 | 0.11 | 0.564 | 0.59 |
| | LTE 17 | QPSK10M | Top Side | 15 | 23790 | w/o | 1 | 0 | 24.0 | 23.58 | 1.10 | -0.07 | 0.12 | 0.13 |
| | LTE 17 | QPSK10M | Rear Face | 0 | 23790 | w/ | 25 | 0 | 20.0 | 19.86 | 1.03 | 0.11 | 0.739 | 0.76 |
| | LTE 17 | QPSK10M | Rear Face | 14 | 23790 | w/o | 25 | 0 | 23.0 | 22.60 | 1.10 | 0.07 | 0.171 | 0.19 |
| | LTE 17 | QPSK10M | Left Side | 0 | 23790 | w/o | 25 | 0 | 23.0 | 22.60 | 1.10 | -0.18 | 0.06 | 0.07 |
| | LTE 17 | QPSK10M | Top Side | 0 | 23790 | w/ | 25 | 0 | 20.0 | 19.86 | 1.03 | 0.05 | 0.455 | 0.47 |
| | LTE 17 | QPSK10M | Top Side | 15 | 23790 | w/o | 25 | 0 | 23.0 | 22.60 | 1.10 | -0.07 | 0.098 | 0.11 |
| | LTE 17 | QPSK10M | Rear Face | 0 | 23780 | w/ | 1 | 0 | 21.0 | 20.74 | 1.06 | 0.15 | 0.897 | 0.95 |
| 11 | LTE 17 | QPSK10M | Rear Face | 0 | 23800 | w/ | 1 | 0 | 21.0 | 20.80 | 1.05 | 0.13 | 0.944 | 0.99 |
| | LTE 17 | QPSK10M | Rear Face | 0 | 23800 | w/ | 50 | 0 | 20.0 | 19.79 | 1.05 | -0.06 | 0.692 | 0.73 |
| | LTE 17 | QPSK10M | Rear Face | 0 | 23800 | w/ | 1 | 0 | 21.0 | 20.80 | 1.05 | 0.13 | 0.938 | 0.98 |

Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.

| Plot No. | Band | Test Position | Separation Distance (mm) | Ch. | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|----------|---------|---------------|--------------------------|-----|--------------------------|--------------------------------|----------------|------------------|------------------------|----------------------|
| 12 | 802.11b | Rear Face | 0 | 11 | 17.0 | 15.94 | 1.28 | 0.14 | 0.741 | 0.95 |
| | 802.11b | Right Side | 0 | 11 | 17.0 | 15.94 | 1.28 | 0.18 | 0.204 | 0.26 |
| | 802.11b | Top Side | 0 | 11 | 17.0 | 15.94 | 1.28 | 0.11 | 0.288 | 0.37 |
| | 802.11b | Rear Face | 0 | 1 | 17.0 | 15.77 | 1.33 | 0.00 | 0.558 | 0.74 |
| | 802.11b | Rear Face | 0 | 6 | 17.0 | 15.45 | 1.43 | 0.00 | 0.643 | 0.92 |
| 13 | 802.11a | Rear Face | 0 | 36 | 12.0 | 11.81 | 1.04 | 0.11 | 0.156 | 0.16 |
| | 802.11a | Top Side | 0 | 36 | 12.0 | 11.81 | 1.04 | -0.16 | 0.137 | 0.14 |
| | 802.11a | Rear Face | 0 | 60 | 12.0 | 11.79 | 1.05 | 0.12 | 0.351 | 0.37 |
| 14 | 802.11a | Top Side | 0 | 60 | 12.0 | 11.79 | 1.05 | 0.12 | 0.368 | 0.39 |
| | 802.11a | Rear Face | 0 | 140 | 13.5 | 13.08 | 1.10 | 0.13 | 0.65 | 0.72 |
| | 802.11a | Right Side | 0 | 140 | 13.5 | 13.08 | 1.10 | 0.12 | 0.28 | 0.31 |
| 15 | 802.11a | Top Side | 0 | 140 | 13.5 | 13.08 | 1.10 | 0.11 | 1.04 | 1.15 |
| | 802.11a | Top Side | 0 | 104 | 13.5 | 11.52 | 1.58 | 0.17 | 0.52 | 0.81 |
| | 802.11a | Top Side | 0 | 116 | 13.5 | 12.72 | 1.20 | 0.17 | 0.76 | 0.91 |
| | 802.11a | Top Side | 0 | 140 | 13.5 | 13.08 | 1.10 | 0.08 | 1.03 | 1.13 |
| | 802.11a | Rear Face | 0 | 157 | 13.0 | 12.78 | 1.05 | 0.09 | 0.544 | 0.57 |
| | 802.11a | Right Side | 0 | 157 | 13.0 | 12.78 | 1.05 | 0.06 | 0.291 | 0.31 |
| 16 | 802.11a | Top Side | 0 | 157 | 13.0 | 12.78 | 1.05 | -0.15 | 0.975 | 1.03 |
| | 802.11a | Top Side | 0 | 149 | 13.0 | 12.72 | 1.07 | 0.02 | 0.964 | 1.03 |
| | 802.11a | Top Side | 0 | 165 | 13.0 | 12.74 | 1.06 | -0.08 | 0.857 | 0.91 |
| | 802.11a | Top Side | 0 | 157 | 13.0 | 12.78 | 1.05 | -0.10 | 0.97 | 1.02 |

Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is ≤ 1.6 W/kg and the 1g averaged SAR is ≤ 0.8 W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g/n is not required when its maximum power is less than 1/4 dB higher than 802.11b.
3. SAR testing for 802.11n is not required when its maximum power is less than 1/4 dB higher than 802.11a.

FCC SAR Test Report

4.7.2 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These 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 re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. 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, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

| Band | Mode | Test Position | Separation Distance (mm) | Ch. | Original Measured SAR-1g (W/kg) | 1st Repeated SAR-1g (W/kg) | L/S Ratio | 2nd Repeated SAR-1g (W/kg) | L/S Ratio | 3rd Repeated SAR-1g (W/kg) | L/S Ratio |
|----------|----------|---------------|--------------------------|-------|---------------------------------|----------------------------|-----------|----------------------------|-----------|----------------------------|-----------|
| GSM1900 | GPRS10 | Rear Face | 0 | 810 | 1.08 | 1.02 | 1.06 | N/A | N/A | N/A | N/A |
| WCDMA II | RMC12.2K | Rear Face | 0 | 9538 | 0.935 | 0.915 | 1.02 | N/A | N/A | N/A | N/A |
| WCDMA IV | RMC12.2K | Top Side | 15 | 1513 | 0.993 | 0.969 | 1.02 | N/A | N/A | N/A | N/A |
| LTE 2 | QPSK20M | Top Side | 15 | 18700 | 1.06 | 1 | 1.06 | N/A | N/A | N/A | N/A |
| LTE 4 | QPSK20M | Top Side | 15 | 20300 | 1.1 | 1.06 | 1.04 | N/A | N/A | N/A | N/A |
| LTE 7 | QPSK20M | Rear Face | 0 | 21350 | 0.859 | 0.832 | 1.03 | N/A | N/A | N/A | N/A |
| LTE 13 | QPSK10M | Rear Face | 0 | 23230 | 0.828 | 0.825 | 1.00 | N/A | N/A | N/A | N/A |
| LTE 17 | QPSK10M | Rear Face | 0 | 23800 | 0.944 | 0.938 | 1.01 | N/A | N/A | N/A | N/A |

FCC SAR Test Report

4.7.3 Simultaneous Multi-band Transmission Evaluation

<Estimated SAR Calculation>

According to KDB 447498 D01, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR was estimated according to following formula to result in substantially conservative SAR values of ≤ 0.4 W/kg to determine simultaneous transmission SAR test exclusion.

$$\text{Estimated SAR} = \frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \frac{\sqrt{f_{(GHz)}}}{7.5}$$

If the minimum test separation distance is < 5 mm, a distance of 5 mm is used for estimated SAR calculation. When the test separation distance is > 50 mm, the 0.4 W/kg is used for SAR-1g.

| Mode / Band | Frequency (GHz) | Max. Tune-up Power (dBm) | Test Position | Separation Distance (mm) | Estimated SAR (W/kg) |
|-------------|-----------------|-------------------------------------|---------------|--------------------------|----------------------|
| GSM850 | 0.849 | 26.24 (Max Frame-Averaged Power) | Body | 0 | 0.40 |
| GSM1900 | 1.91 | 23.24 (Max Frame-Averaged Power) | Body | 0 | 0.40 |
| WCDMA II | 1.908 | 23.5 | Body | 0 | 0.40 |
| WCDMA IV | 1.753 | 23.5 | Body | 0 | 0.40 |
| WCDMA V | 0.847 | 24.0 | Body | 0 | 0.40 |
| LTE 2 | 1.908 | 24.0 | Body | 0 | 0.40 |
| LTE 4 | 1.753 | 24.0 | Body | 0 | 0.40 |
| LTE 5 | 0.847 | 24.0 | Body | 0 | 0.40 |
| LTE 7 | 2.502 | 23.5 | Body | 0 | 0.40 |
| LTE 13 | 0.785 | 23.5 | Body | 0 | 0.40 |
| LTE 17 | 0.714 | 24.0 | Body | 0 | 0.40 |
| WLAN (DTS) | 2.462 | 17.0 | Body | 0 | 0.40 |
| WLAN (NII) | 5.7 | 13.5 | Body | 0 | 0.40 |
| BT (DSS) | 2.48 | 8.0 | Body | 0 | 0.26 |

Note:

1. The separation distance is determined from the outer housing of the EUT to the user.
2. When standalone SAR testing is not required, an estimated SAR can be applied to determine simultaneous transmission SAR test exclusion.

FCC SAR Test Report

<SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|---------------------------|
| 1 | GSM850 + WLAN (DTS) | Body | Rear Face | 0.70 | 0.95 | 1.65 | Analyzed as below |
| | | | Left Side | 0.16 | 0.40 | 0.56 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.50 | 1.03 | 1.53 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 2 | GSM850 + WLAN (NII) | Body | Rear Face | 0.70 | 0.72 | 1.42 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.16 | 0.40 | 0.56 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.50 | 1.15 | 1.65 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 3 | GSM850 + BT (DSS) | Body | Rear Face | 0.70 | 0.26 | 0.96 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.16 | 0.26 | 0.42 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.50 | 0.26 | 0.76 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |



FCC SAR Test Report

A D T

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 4 | GSM1900 + WLAN (DTS) | Body | Rear Face | 1.19 | 0.95 | 2.14 | Analyzed as below |
| | | | Left Side | 0.12 | 0.40 | 0.52 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.65 | 1.03 | 1.68 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 5 | GSM1900 + WLAN (NII) | Body | Rear Face | 1.19 | 0.72 | 1.91 | Analyzed as below |
| | | | Left Side | 0.12 | 0.40 | 0.52 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.65 | 1.15 | 1.80 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 6 | GSM1900 + BT (DSS) | Body | Rear Face | 1.19 | 0.26 | 1.45 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.12 | 0.26 | 0.38 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.65 | 0.26 | 0.91 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 7 | WCDMA II + WLAN (DTS) | Body | Rear Face | 1.07 | 0.95 | 2.02 | Analyzed as below |
| | | | Left Side | 0.21 | 0.40 | 0.61 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.18 | 1.03 | 2.21 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 8 | WCDMA II + WLAN (NII) | Body | Rear Face | 1.07 | 0.72 | 1.79 | Analyzed as below |
| | | | Left Side | 0.21 | 0.40 | 0.61 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.18 | 1.15 | 2.33 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 9 | WCDMA II + BT (DSS) | Body | Rear Face | 1.07 | 0.26 | 1.33 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.21 | 0.26 | 0.47 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.18 | 0.26 | 1.44 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |



FCC SAR Test Report

A D T

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 10 | WCDMA IV + WLAN (DTS) | Body | Rear Face | 1.08 | 0.95 | 2.03 | Analyzed as below |
| | | | Left Side | 0.12 | 0.40 | 0.52 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.19 | 1.03 | 2.22 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 11 | WCDMA IV + WLAN (NII) | Body | Rear Face | 1.08 | 0.72 | 1.80 | Analyzed as below |
| | | | Left Side | 0.12 | 0.40 | 0.52 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.19 | 1.15 | 2.34 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 12 | WCDMA IV + BT (DSS) | Body | Rear Face | 1.08 | 0.26 | 1.34 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.12 | 0.26 | 0.38 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.19 | 0.26 | 1.45 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 13 | WCDMA V + WLAN (DTS) | Body | Rear Face | 0.60 | 0.95 | 1.55 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.14 | 0.40 | 0.54 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.51 | 1.03 | 1.54 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 14 | WCDMA V + WLAN (NII) | Body | Rear Face | 0.60 | 0.72 | 1.32 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.14 | 0.40 | 0.54 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.51 | 1.15 | 1.66 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 15 | WCDMA V + BT (DSS) | Body | Rear Face | 0.60 | 0.26 | 0.86 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.14 | 0.26 | 0.40 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.51 | 0.26 | 0.77 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |



FCC SAR Test Report

A D T

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 16 | LTE 2 + WLAN (DTS) | Body | Rear Face | 1.04 | 0.95 | 1.99 | Analyzed as below |
| | | | Left Side | 0.25 | 0.40 | 0.65 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.17 | 1.03 | 2.20 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 17 | LTE 2 + WLAN (NII) | Body | Rear Face | 1.04 | 0.72 | 1.76 | Analyzed as below |
| | | | Left Side | 0.25 | 0.40 | 0.65 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.17 | 1.15 | 2.32 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 18 | LTE 2 + BT (DSS) | Body | Rear Face | 1.04 | 0.26 | 1.30 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.25 | 0.26 | 0.51 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.17 | 0.26 | 1.43 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 19 | LTE 4 + WLAN (DTS) | Body | Rear Face | 1.08 | 0.95 | 2.03 | Analyzed as below |
| | | | Left Side | 0.13 | 0.40 | 0.53 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.20 | 1.03 | 2.23 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 20 | LTE 4 + WLAN (NII) | Body | Rear Face | 1.08 | 0.72 | 1.80 | Analyzed as below |
| | | | Left Side | 0.13 | 0.40 | 0.53 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.20 | 1.15 | 2.35 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 21 | LTE 4 + BT (DSS) | Body | Rear Face | 1.08 | 0.26 | 1.34 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.13 | 0.26 | 0.39 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 1.20 | 0.26 | 1.46 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |



FCC SAR Test Report

A D T

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 22 | LTE 5 + WLAN (DTS) | Body | Rear Face | 0.63 | 0.95 | 1.58 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.12 | 0.40 | 0.52 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.50 | 1.03 | 1.53 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 23 | LTE 5 + WLAN (NII) | Body | Rear Face | 0.63 | 0.72 | 1.35 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.12 | 0.40 | 0.52 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.50 | 1.15 | 1.65 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 24 | LTE 5 + BT (DSS) | Body | Rear Face | 0.63 | 0.26 | 0.89 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.12 | 0.26 | 0.38 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.50 | 0.26 | 0.76 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 25 | LTE 7 + WLAN (DTS) | Body | Rear Face | 0.94 | 0.95 | 1.89 | Analyzed as below |
| | | | Left Side | 0.02 | 0.40 | 0.42 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.54 | 1.03 | 1.57 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 26 | LTE 7 + WLAN (NII) | Body | Rear Face | 0.94 | 0.72 | 1.66 | Analyzed as below |
| | | | Left Side | 0.02 | 0.40 | 0.42 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.54 | 1.15 | 1.69 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 27 | LTE 7 + BT (DSS) | Body | Rear Face | 0.94 | 0.26 | 1.20 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.02 | 0.26 | 0.28 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.54 | 0.26 | 0.80 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |



FCC SAR Test Report

A D T

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 28 | LTE 13 + WLAN (DTS) | Body | Rear Face | 0.84 | 0.95 | 1.79 | Analyzed as below |
| | | | Left Side | 0.10 | 0.40 | 0.50 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.79 | 1.03 | 1.82 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 29 | LTE 13 + WLAN (NII) | Body | Rear Face | 0.84 | 0.72 | 1.56 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.10 | 0.40 | 0.50 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.79 | 1.15 | 1.94 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 30 | LTE 13 + BT (DSS) | Body | Rear Face | 0.84 | 0.26 | 1.10 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.10 | 0.26 | 0.36 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.79 | 0.26 | 1.05 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |

| No. | Conditions (SAR1 + SAR2) | Exposure Condition | Test Position | Max. SAR1 | Max. SAR2 | SAR Summation | SPLSR Analysis |
|-----|--------------------------|--------------------|---------------|-----------|-----------|---------------|----------------------------------|
| 31 | LTE 17 + WLAN (DTS) | Body | Rear Face | 0.99 | 0.95 | 1.94 | Analyzed as below |
| | | | Left Side | 0.09 | 0.40 | 0.49 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.59 | 1.03 | 1.62 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 32 | LTE 17 + WLAN (NII) | Body | Rear Face | 0.99 | 0.72 | 1.71 | Analyzed as below |
| | | | Left Side | 0.09 | 0.40 | 0.49 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.31 | 0.71 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.59 | 1.15 | 1.74 | Analyzed as below |
| | | | Bottom Side | 0.40 | 0.40 | 0.80 | Σ SAR < 1.6, Not required |
| 33 | LTE 17 + BT (DSS) | Body | Rear Face | 0.99 | 0.26 | 1.25 | Σ SAR < 1.6, Not required |
| | | | Left Side | 0.09 | 0.26 | 0.35 | Σ SAR < 1.6, Not required |
| | | | Right Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |
| | | | Top Side | 0.59 | 0.26 | 0.85 | Σ SAR < 1.6, Not required |
| | | | Bottom Side | 0.40 | 0.26 | 0.66 | Σ SAR < 1.6, Not required |

FCC SAR Test Report

<SAR to Peak Location Separation Ratio Analysis>

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following formula.

$$\text{Peak Location Separation Distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

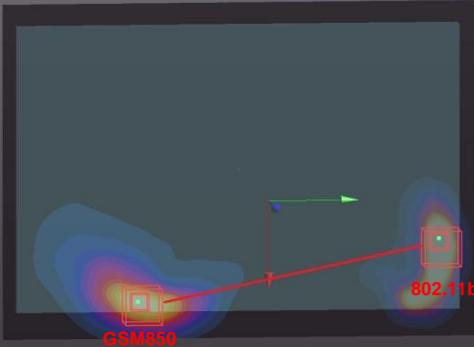
When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

The SPLSR is determined by the following formula.

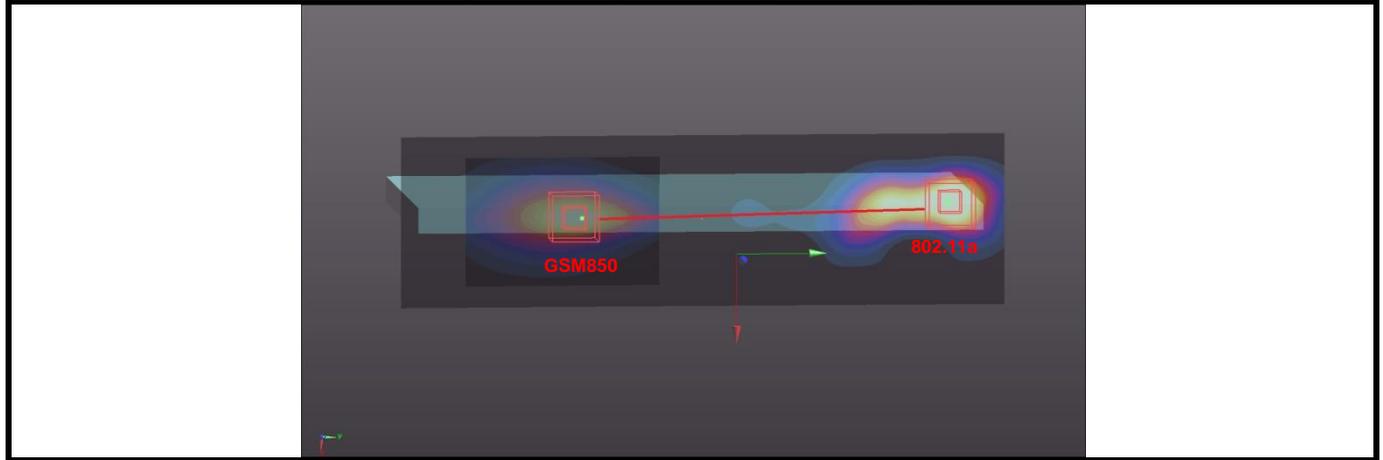
$$\text{SPLSR} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

Where SAR_1 and SAR_2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

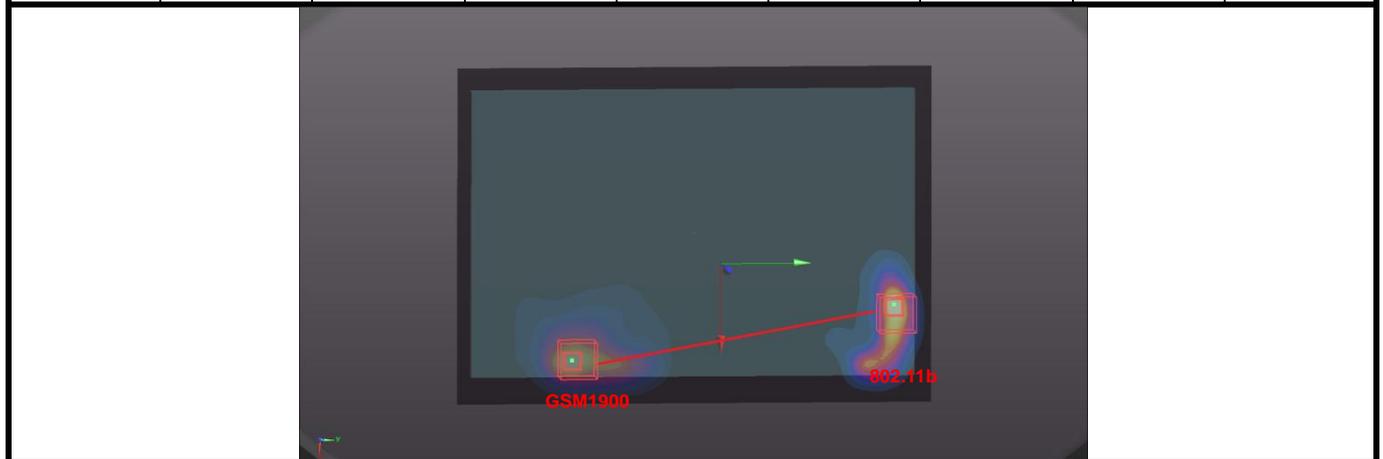
When the SPLSR is ≤ 0.04 , the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R_i , mm) | SPLSR |
|--|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| GSM850 Ch189 | Body | Rear Face | 0.70 | 7.96 | -5.36 | 0.62 | 177.2 | 0.012 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |
|  | | | | | | | | |

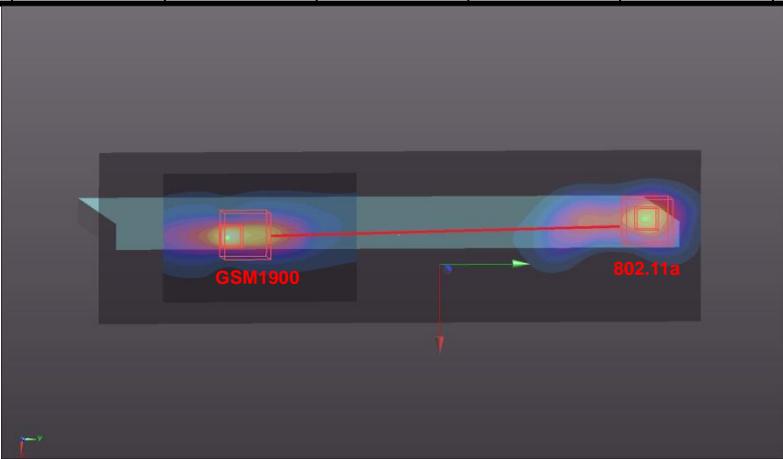
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| GSM850 Ch189 | Body | Top Side | 0.50 | -0.31 | -5.76 | -0.40 | 165.4 | 0.013 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |



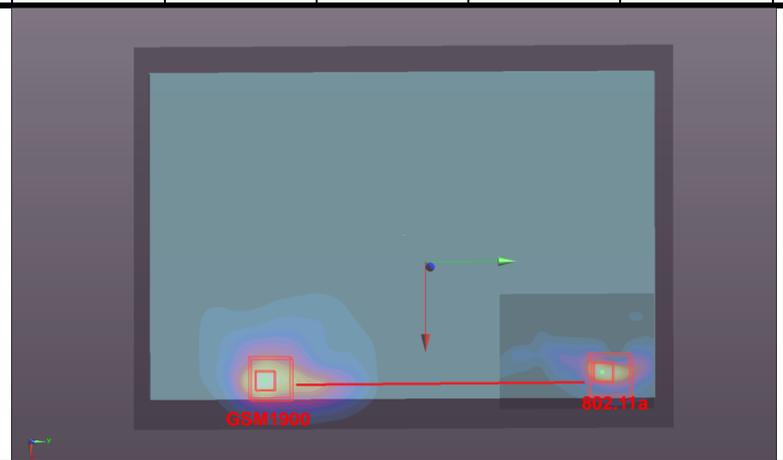
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| GSM1900 Ch810 | Body | Rear Face | 1.19 | 7.40 | -7.04 | 0.66 | 192.7 | 0.016 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |



| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|----------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| GSM1900 Ch 661 | Body | Top Side | 0.65 | 0.16 | -7.84 | -0.33 | 186.2 | 0.012 |
| 802.11a Ch157 | | | 1.03 | -0.45 | 10.75 | 0.48 | | |

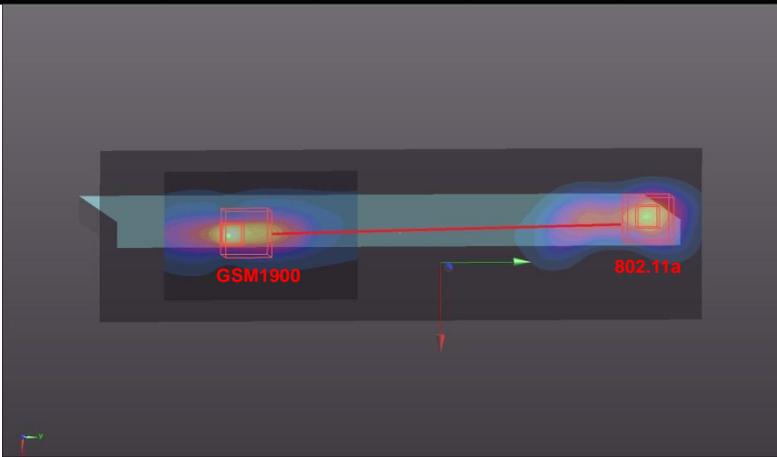


| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|---------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| GSM1900 Ch810 | Body | Rear Face | 1.19 | 7.40 | -7.04 | 0.66 | 176.0 | 0.015 |
| 802.11a Ch140 | | | 0.72 | 6.95 | 9.85 | -0.26 | | |

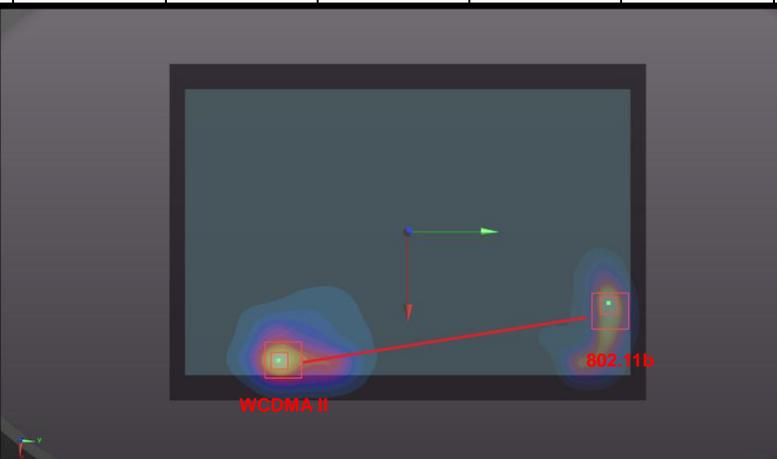


FCC SAR Test Report

| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|----------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| GSM1900 Ch 661 | Body | Top Side | 0.65 | 0.16 | -7.84 | -0.33 | 211.0 | 0.011 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |

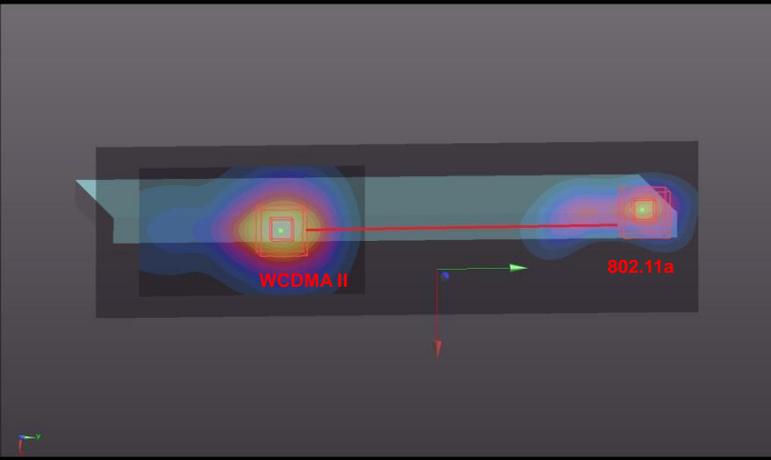


| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-----------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| WCDMA II Ch9538 | Body | Rear Face | 1.07 | 7.60 | -7.44 | 0.55 | 197.0 | 0.015 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |

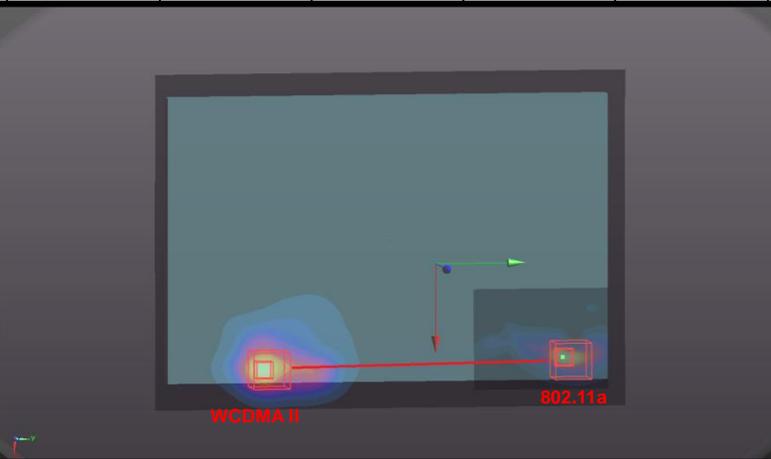


FCC SAR Test Report

| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-----------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| WCDMA II Ch9262 | Body | Top Side | 1.18 | -0.16 | -5.08 | -0.42 | 158.6 | 0.021 |
| 802.11a Ch157 | | | 1.03 | -0.45 | 10.75 | 0.48 | | |

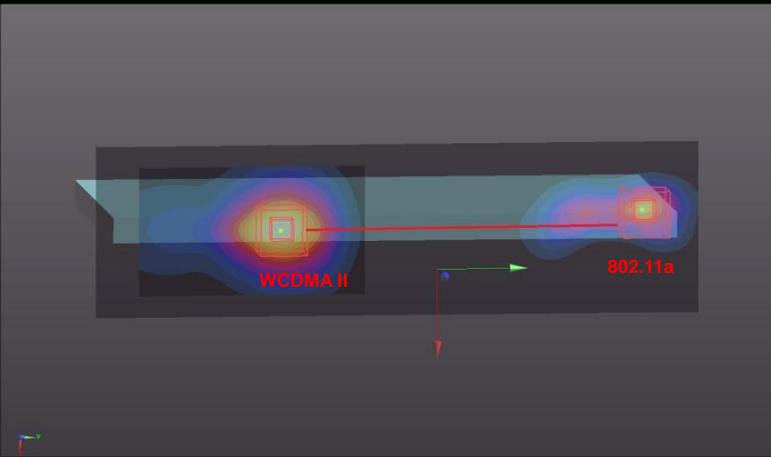


| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-----------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| WCDMA II Ch9538 | Body | Rear Face | 1.07 | 7.60 | -7.44 | 0.55 | 181.0 | 0.013 |
| 802.11a Ch140 | | | 0.72 | 6.95 | 9.85 | -0.26 | | |

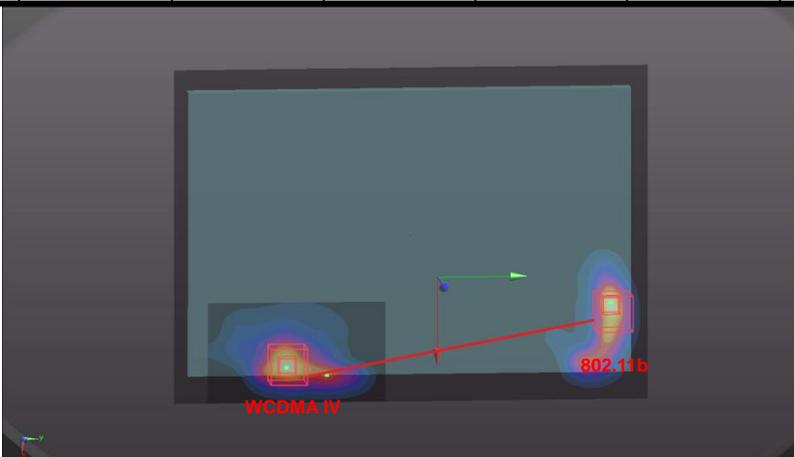


FCC SAR Test Report

| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|--------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| WCDMA II Ch9262 | Body | Top Side | 1.18 | -0.16 | -5.08 | -0.42 | 181.0 | 0.020 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |

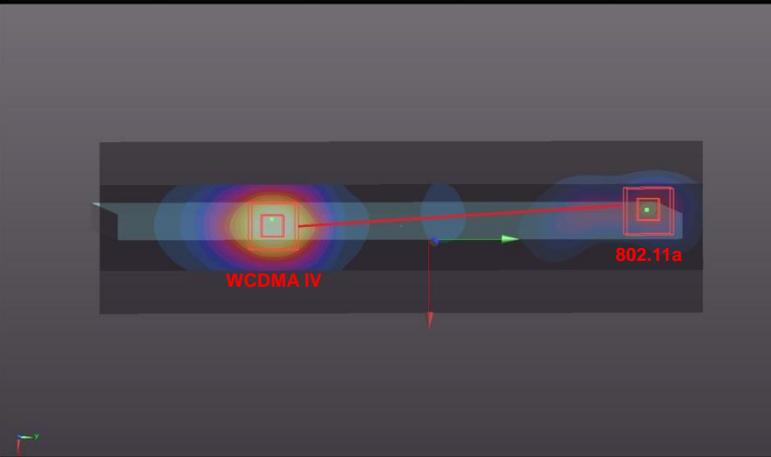


| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|--------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| WCDMA IV Ch1312 | Body | Rear Face | 1.08 | 7.58 | -6.71 | -0.29 | 194.0 | 0.015 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |

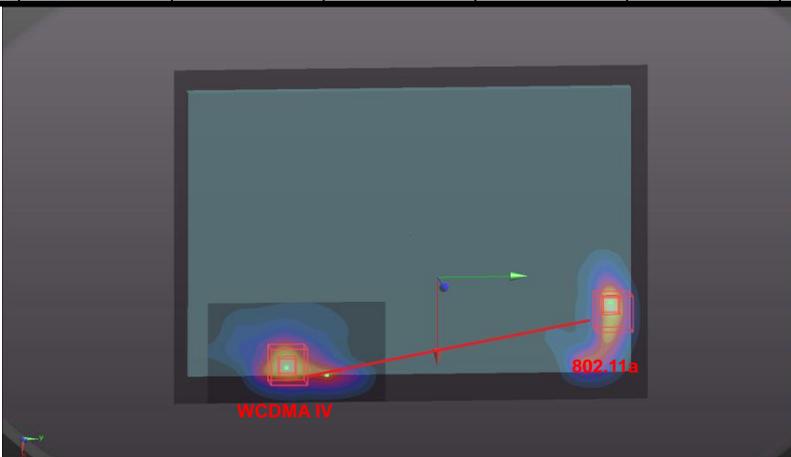


FCC SAR Test Report

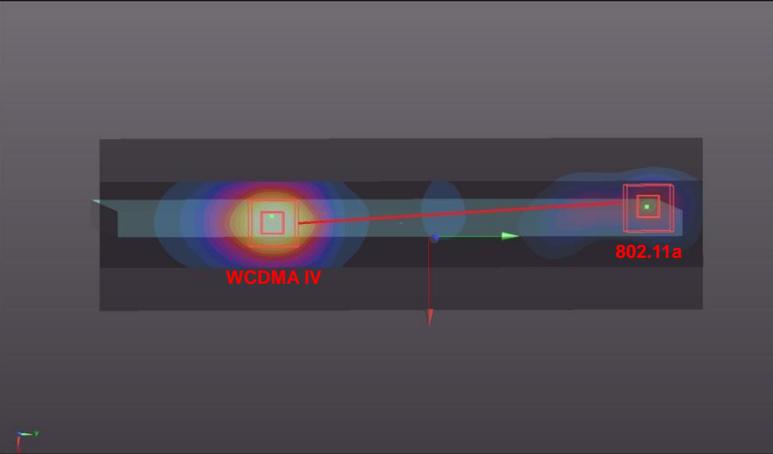
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-----------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| WCDMA IV Ch1513 | Body | Top Side | 1.19 | -0.08 | -6.00 | 0.41 | 167.5 | 0.020 |
| 802.11a Ch157 | | | 1.03 | -0.45 | 10.75 | 0.48 | | |



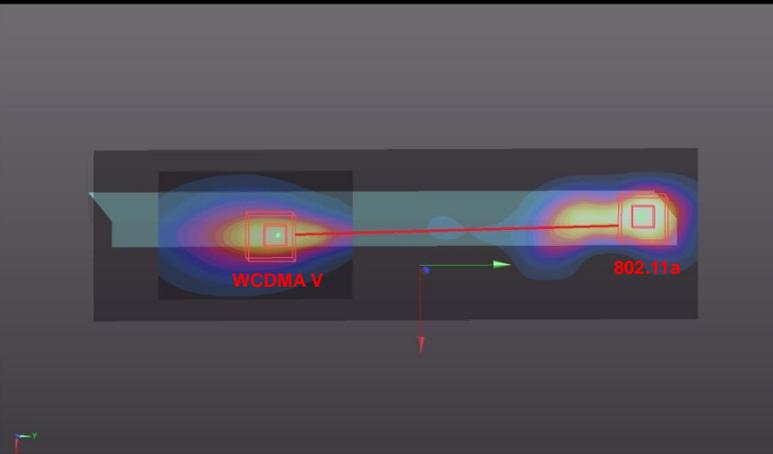
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-----------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| WCDMA IV Ch1312 | Body | Rear Face | 1.08 | 7.58 | -6.71 | -0.29 | 176.0 | 0.014 |
| 802.11a Ch140 | | | 0.72 | 6.95 | 9.85 | -0.26 | | |



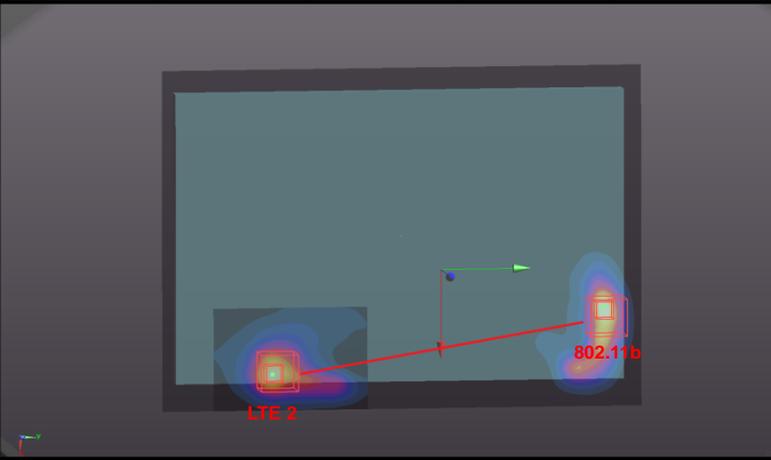
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|--------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| WCDMA IV Ch1513 | Body | Top Side | 1.19 | -0.08 | -6.00 | 0.41 | 167.6 | 0.021 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |



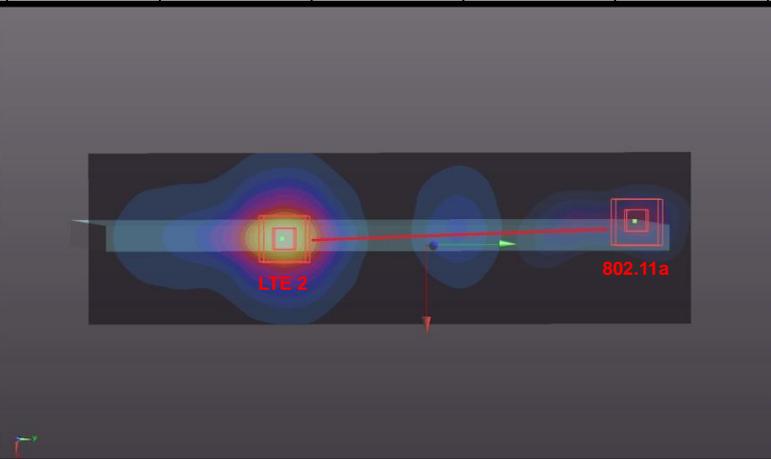
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|--------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| WCDMA V Ch 4233 | Body | Top Side | 0.51 | -0.32 | -5.77 | -0.40 | 165.5 | 0.013 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |



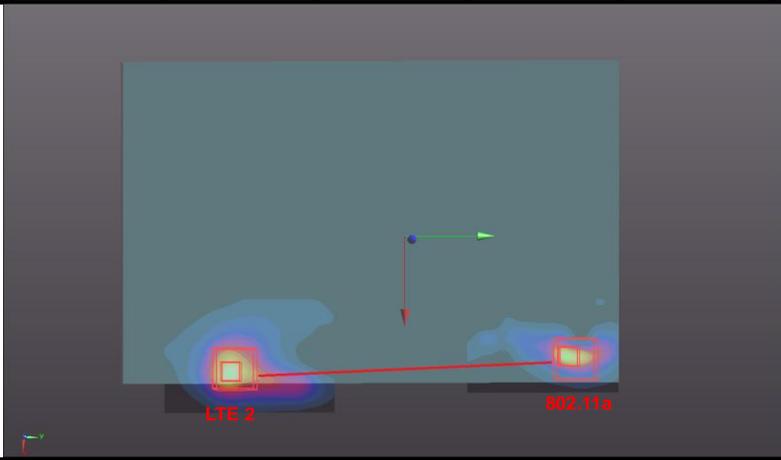
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| LTE 2 Ch19100 | Body | Rear Face | 1.04 | 7.44 | -7.92 | 0.53 | 195.0 | 0.014 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |



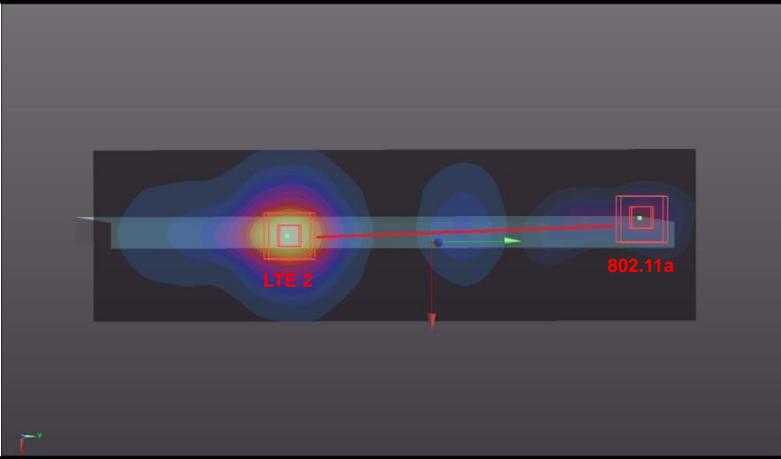
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| LTE 2 Ch18700 | Body | Top Side | 1.17 | 0.00 | -5.00 | 0.38 | 157.6 | 0.021 |
| 802.11a Ch157 | | | 1.03 | -0.45 | 10.75 | 0.48 | | |



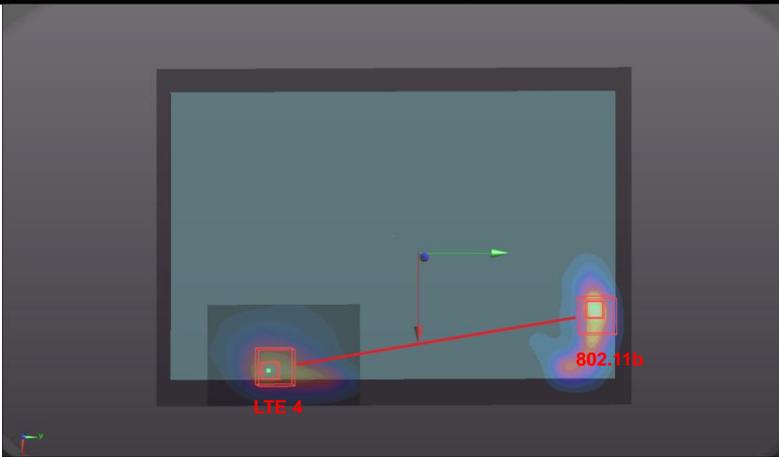
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 2 Ch19100 | Body | Rear Face | 1.04 | 7.44 | -7.92 | 0.53 | 177.0 | 0.013 |
| 802.11a Ch140 | | | 0.72 | 6.95 | 9.85 | -0.26 | | |



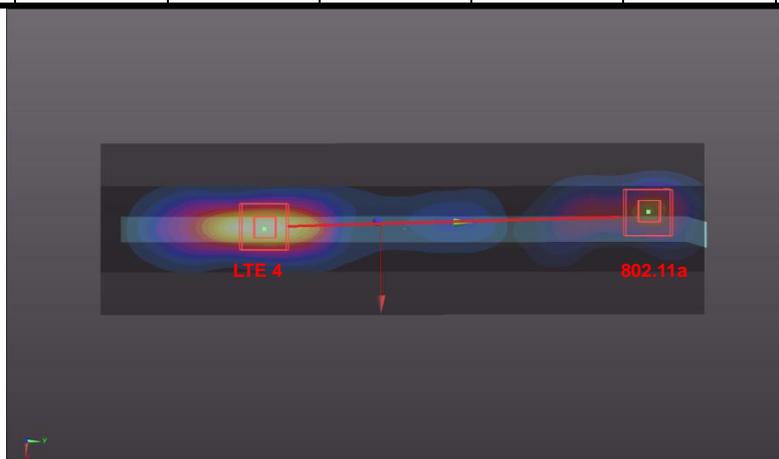
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| LTE 2 Ch18700 | Body | Top Side | 1.17 | 0.00 | -5.00 | 0.38 | 157.7 | 0.022 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |



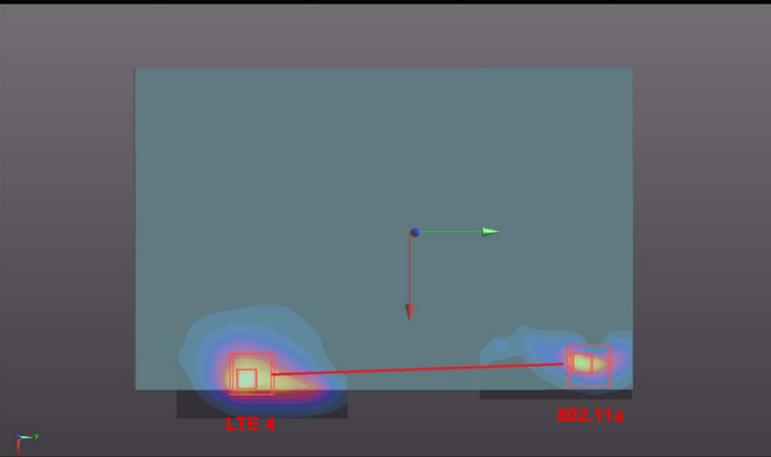
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 4 Ch20300 | Body | Rear Face | 1.08 | 7.74 | -7.24 | -0.29 | 200.0 | 0.014 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |



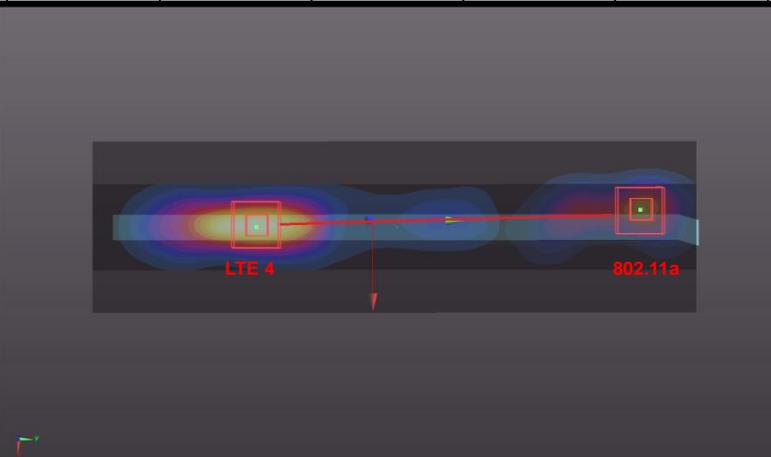
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| LTE 4 Ch 20300 | Body | Top Side | 1.20 | 0.00 | -5.92 | 0.49 | 166.8 | 0.020 |
| 802.11a Ch157 | | | 1.03 | -0.45 | 10.75 | 0.48 | | |



| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 4 Ch20300 | Body | Rear Face | 1.08 | 7.74 | -7.24 | -0.29 | 181.0 | 0.013 |
| 802.11a Ch140 | | | 0.72 | 6.95 | 9.85 | -0.26 | | |



| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| LTE 4 Ch 20300 | Body | Top Side | 1.20 | 0.00 | -5.92 | 0.49 | 166.9 | 0.022 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |



FCC SAR Test Report

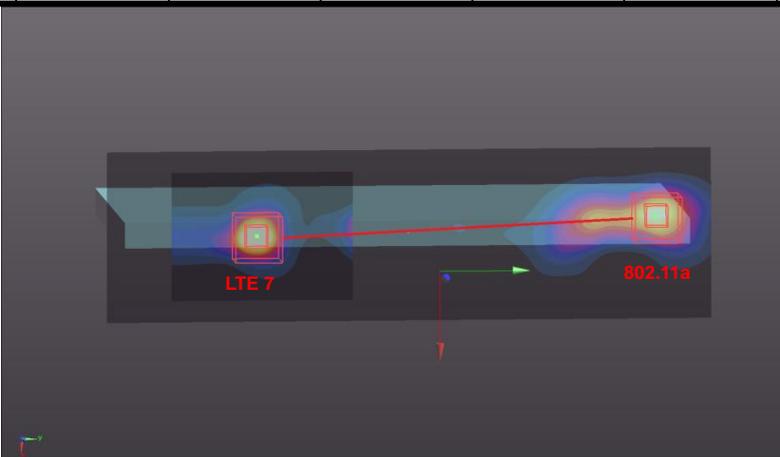
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 5 Ch 20450 | Body | Top Side | 0.50 | -0.30 | -5.61 | -0.40 | 183.0 | 0.012 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |

| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| LTE 7 Ch21350 | Body | Rear Face | 0.94 | 7.72 | -7.56 | 0.38 | 198.4 | 0.013 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |

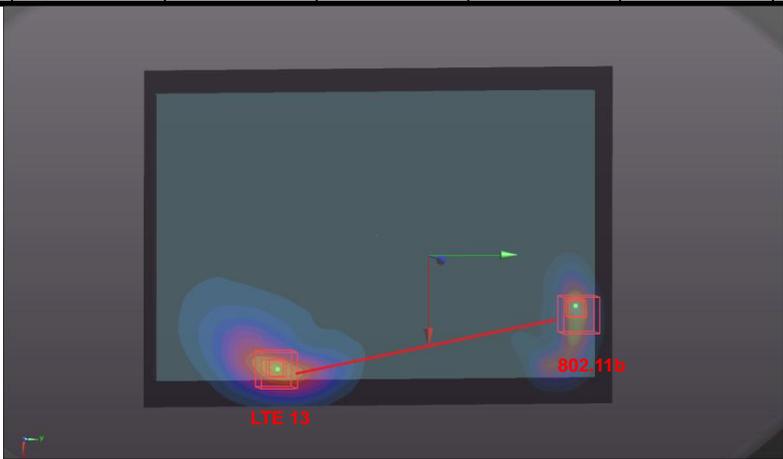
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 7 Ch21350 | Body | Rear Face | 0.94 | 7.72 | -7.56 | 0.38 | 180.0 | 0.012 |
| 802.11a Ch140 | | | 0.72 | 6.95 | 9.85 | -0.26 | | |



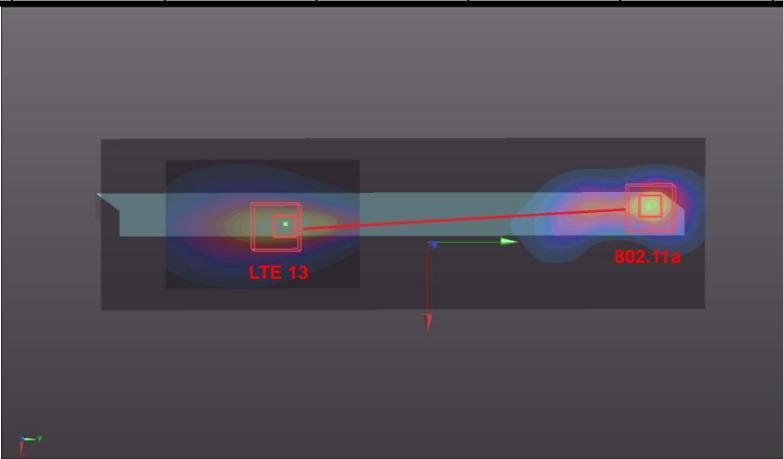
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 7 Ch21350 | Body | Top Side | 0.54 | -0.24 | -7.36 | -0.37 | 201.0 | 0.011 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |



| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| LTE 13 Ch23230 | Body | Rear Face | 0.84 | 7.64 | -6.64 | 0.58 | 189.2 | 0.013 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |



| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|--------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 13 Ch 23230 | Body | Top Side | 0.79 | -0.32 | -5.77 | -0.40 | 183.0 | 0.013 |
| 802.11a Ch157 | | | 1.03 | -0.45 | 10.75 | 0.48 | | |

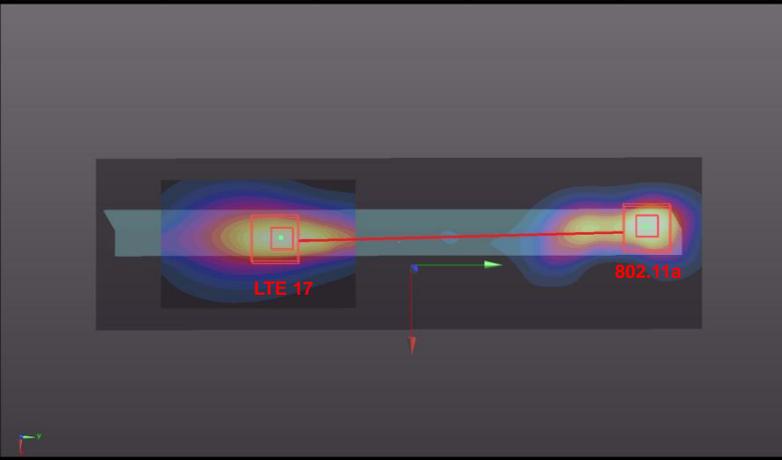


FCC SAR Test Report

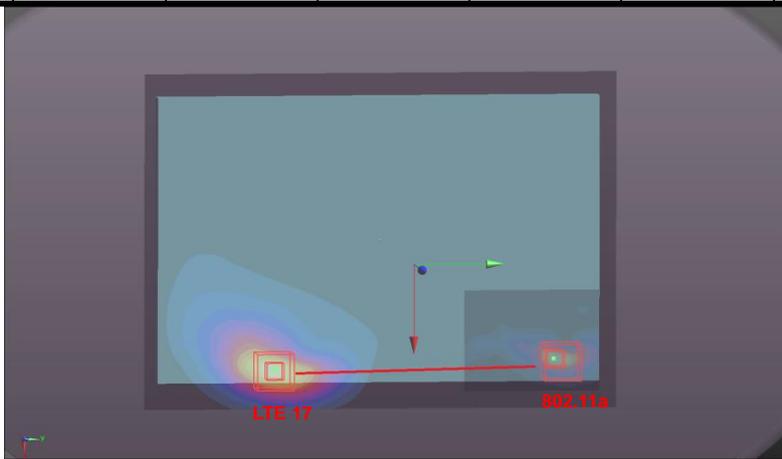
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|--------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 13 Ch 23230 | Body | Top Side | 0.79 | -0.32 | -5.77 | -0.40 | 182.0 | 0.015 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |

| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-------------------|--------------------|---------------|------------------|-------------|-------|------|---|-------|
| | | | | x | y | z | | |
| LTE 17 Ch23800 | Body | Rear Face | 0.99 | 7.44 | -7.16 | 0.59 | 193.9 | 0.014 |
| 802.11b Ch11 | | | 0.95 | 4.20 | 11.96 | 0.70 | | |

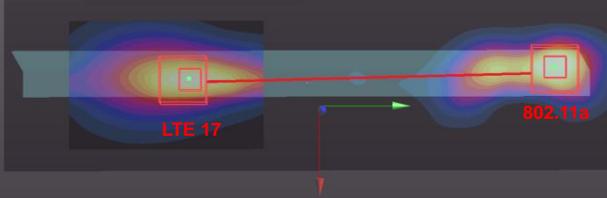
| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 17 Ch23790 | Body | Top Side | 0.59 | -0.30 | -4.65 | -0.40 | 181.0 | 0.011 |
| 802.11a Ch157 | | | 1.03 | -0.45 | 10.75 | 0.48 | | |



| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 17 Ch23800 | Body | Rear Face | 0.99 | 7.44 | -7.16 | 0.59 | 170.4 | 0.013 |
| 802.11a Ch140 | | | 0.72 | 6.95 | 9.85 | -0.26 | | |



| Conditions | Exposure Condition | Test Position | SAR Value (W/kg) | Coordinates | | | Peak Location Separation Distance (R _i , mm) | SPLSR |
|-------------------|--------------------|---------------|------------------|-------------|-------|-------|---|-------|
| | | | | x | y | z | | |
| LTE 17 Ch23790 | Body | Top Side | 0.59 | -0.30 | -4.65 | -0.40 | 181.0 | 0.013 |
| 802.11a Ch140 | | | 1.15 | -0.75 | 10.75 | 0.48 | | |



Test Engineer : Sam Onn, and Mars Chang



5. Calibration of Test Equipment

| Equipment | Manufacturer | Model | SN | Cal. Date | Cal. Interval |
|---------------------------------|--------------|---------|------------|---------------|---------------|
| System Validation Dipole | SPEAG | D750V3 | 1013 | Apr. 25, 2013 | 2 Years |
| System Validation Dipole | SPEAG | D835V2 | 4d121 | Apr. 25, 2013 | 2 Years |
| System Validation Dipole | SPEAG | D1750V2 | 1055 | Aug. 27, 2013 | 2 Years |
| System Validation Dipole | SPEAG | D1900V2 | 5d036 | Jan. 21, 2013 | 2 Years |
| System Validation Dipole | SPEAG | D2450V2 | 737 | Jan. 21, 2013 | 2 Years |
| System Validation Dipole | SPEAG | D2600V2 | 1020 | Jan. 21, 2013 | 2 Years |
| System Validation Dipole | SPEAG | D5GHzV2 | 1019 | Nov. 16, 2012 | 2 Years |
| Dosimetric E-Field Probe | SPEAG | EX3DV4 | 3650 | Jul. 28, 2014 | 1 Year |
| Dosimetric E-Field Probe | SPEAG | EX3DV4 | 3971 | Mar. 31, 2014 | 1 Year |
| Data Acquisition Electronics | SPEAG | DAE4 | 1277 | Jul. 22, 2014 | 1 Year |
| Data Acquisition Electronics | SPEAG | DAE4 | 1431 | Mar. 24, 2014 | 1 Year |
| Wireless Communication Test Set | Agilent | E5515C | MY50266628 | Dec. 05, 2013 | 2 Years |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201300638 | Jul. 22, 2014 | 1 Year |
| ENA Series Network Analyzer | Agilent | E5071C | MY46214281 | Jun. 13, 2014 | 1 Year |
| EXA Spectrum Analyzer | Agilent | N9010A | MY53470455 | Feb. 22, 2014 | 1 Year |
| MXG Analog Signal Generator | Agilent | N5181A | MY50143868 | Jun. 26, 2014 | 1 Year |
| Power Meter | Anritsu | ML2495A | 1218009 | Jun. 26, 2014 | 1 Year |
| Power Sensor | Anritsu | MA2411B | 1207252 | Jun. 26, 2014 | 1 Year |
| Thermometer | YFE | YF-160A | 110600361 | Feb. 27, 2014 | 1 Year |

6. Measurement Uncertainty

| Error Description | Uncertainty Value (±%) | Probability Distribution | Divisor | Ci (1g) | Standard Uncertainty (1g) | Vi |
|--------------------------------------|------------------------|--------------------------|---------|---------|---------------------------|----|
| Measurement System | | | | | | |
| Probe Calibration | 6.0 | Normal | 1 | 1 | ± 6.0 % | ∞ |
| Axial Isotropy | 4.7 | Rectangular | √3 | 0.7 | ± 1.9 % | ∞ |
| Hemispherical Isotropy | 9.6 | Rectangular | √3 | 0.7 | ± 3.9 % | ∞ |
| Boundary Effects | 1.0 | Rectangular | √3 | 1 | ± 0.6 % | ∞ |
| Linearity | 4.7 | Rectangular | √3 | 1 | ± 2.7 % | ∞ |
| System Detection Limits | 1.0 | Rectangular | √3 | 1 | ± 0.6 % | ∞ |
| Readout Electronics | 0.6 | Normal | 1 | 1 | ± 0.6 % | ∞ |
| Response Time | 0.0 | Rectangular | √3 | 1 | ± 0.0 % | ∞ |
| Integration Time | 1.7 | Rectangular | √3 | 1 | ± 1.0 % | ∞ |
| RF Ambient Noise | 3.0 | Rectangular | √3 | 1 | ± 1.7 % | ∞ |
| RF Ambient Reflections | 3.0 | Rectangular | √3 | 1 | ± 1.7 % | ∞ |
| Probe Positioner | 0.5 | Rectangular | √3 | 1 | ± 0.3 % | ∞ |
| Probe Positioning | 2.9 | Rectangular | √3 | 1 | ± 1.7 % | ∞ |
| Max. SAR Eval. | 2.3 | Rectangular | √3 | 1 | ± 1.3 % | ∞ |
| Test Sample Related | | | | | | |
| Device Positioning | 3.9 | Normal | 1 | 1 | ± 3.9 % | 31 |
| Device Holder | 2.7 | Normal | 1 | 1 | ± 2.7 % | 19 |
| Power Drift | 5.0 | Rectangular | √3 | 1 | ± 2.9 % | ∞ |
| Phantom and Setup | | | | | | |
| Phantom Uncertainty | 4.0 | Rectangular | √3 | 1 | ± 2.3 % | ∞ |
| Liquid Conductivity (Target) | 5.0 | Rectangular | √3 | 0.64 | ± 1.8 % | ∞ |
| Liquid Conductivity (Meas.) | 5.0 | Normal | 1 | 0.64 | ± 3.2 % | 29 |
| Liquid Permittivity (Target) | 5.0 | Rectangular | √3 | 0.6 | ± 1.7 % | ∞ |
| Liquid Permittivity (Meas.) | 5.0 | Normal | 1 | 0.6 | ± 3.0 % | 29 |
| Combined Standard Uncertainty | | | | | ± 11.7 % | |
| Expanded Uncertainty (K=2) | | | | | ± 23.4 % | |

Uncertainty budget for frequency range 300 MHz to 3 GHz



FCC SAR Test Report

A D T

| Error Description | Uncertainty Value (±%) | Probability Distribution | Divisor | Ci (1g) | Standard Uncertainty (1g) | Vi |
|--------------------------------------|------------------------|--------------------------|---------|---------|---------------------------|----|
| Measurement System | | | | | | |
| Probe Calibration | 6.55 | Normal | 1 | 1 | ± 6.55 % | ∞ |
| Axial Isotropy | 4.7 | Rectangular | √3 | 0.7 | ± 1.9 % | ∞ |
| Hemispherical Isotropy | 9.6 | Rectangular | √3 | 0.7 | ± 3.9 % | ∞ |
| Boundary Effects | 2.0 | Rectangular | √3 | 1 | ± 1.2 % | ∞ |
| Linearity | 4.7 | Rectangular | √3 | 1 | ± 2.7 % | ∞ |
| System Detection Limits | 1.0 | Rectangular | √3 | 1 | ± 0.6 % | ∞ |
| Readout Electronics | 0.3 | Normal | 1 | 1 | ± 0.3 % | ∞ |
| Response Time | 0.8 | Rectangular | √3 | 1 | ± 0.5 % | ∞ |
| Integration Time | 2.6 | Rectangular | √3 | 1 | ± 1.5 % | ∞ |
| RF Ambient Noise | 3.0 | Rectangular | √3 | 1 | ± 1.7 % | ∞ |
| RF Ambient Reflections | 3.0 | Rectangular | √3 | 1 | ± 1.7 % | ∞ |
| Probe Positioner | 0.8 | Rectangular | √3 | 1 | ± 0.5 % | ∞ |
| Probe Positioning | 9.9 | Rectangular | √3 | 1 | ± 5.7 % | ∞ |
| Max. SAR Eval. | 4.0 | Rectangular | √3 | 1 | ± 2.3 % | ∞ |
| Test Sample Related | | | | | | |
| Device Positioning | 3.9 | Normal | 1 | 1 | ± 3.9 % | 31 |
| Device Holder | 2.7 | Normal | 1 | 1 | ± 2.7 % | 19 |
| Power Drift | 5.0 | Rectangular | √3 | 1 | ± 2.9 % | ∞ |
| Phantom and Setup | | | | | | |
| Phantom Uncertainty | 4.0 | Rectangular | √3 | 1 | ± 2.3 % | ∞ |
| Liquid Conductivity (Target) | 5.0 | Rectangular | √3 | 0.64 | ± 1.8 % | ∞ |
| Liquid Conductivity (Meas.) | 5.0 | Normal | 1 | 0.64 | ± 3.2 % | 30 |
| Liquid Permittivity (Target) | 5.0 | Rectangular | √3 | 0.6 | ± 1.7 % | ∞ |
| Liquid Permittivity (Meas.) | 5.0 | Normal | 1 | 0.6 | ± 3.0 % | 30 |
| Combined Standard Uncertainty | | | | | ± 13.4 % | |
| Expanded Uncertainty (K=2) | | | | | ± 26.8 % | |

Uncertainty budget for frequency range 3 GHz to 6 GHz



FCC SAR Test Report

7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Taiwan HwaYa EMC/RF/Safety/Telecom Lab:

Add: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil., Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

Tel: 886-3-318-3232

Fax: 886-3-327-0892

Taiwan LinKo EMC/RF Lab:

Add: No. 47, 14th Ling, Chia Pau Vil., Linkou Dist., New Taipei City 244, Taiwan, R.O.C.

Tel: 886-2-2605-2180

Fax: 886-2-2605-1924

Taiwan HsinChu EMC/RF Lab:

Add: No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Vil., Chiung Lin Township, Hsinchu County 307, Taiwan, R.O.C.

Tel: 886-3-593-5343

Fax: 886-3-593-5342

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

The road map of all our labs can be found in our web site also.

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

System Check_B750_140906

DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: B07T08N1_0906 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 55.259$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $21.3 \text{ }^\circ\text{C}$; Liquid Temperature : $20.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(9.91, 9.91, 9.91); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.82 W/kg

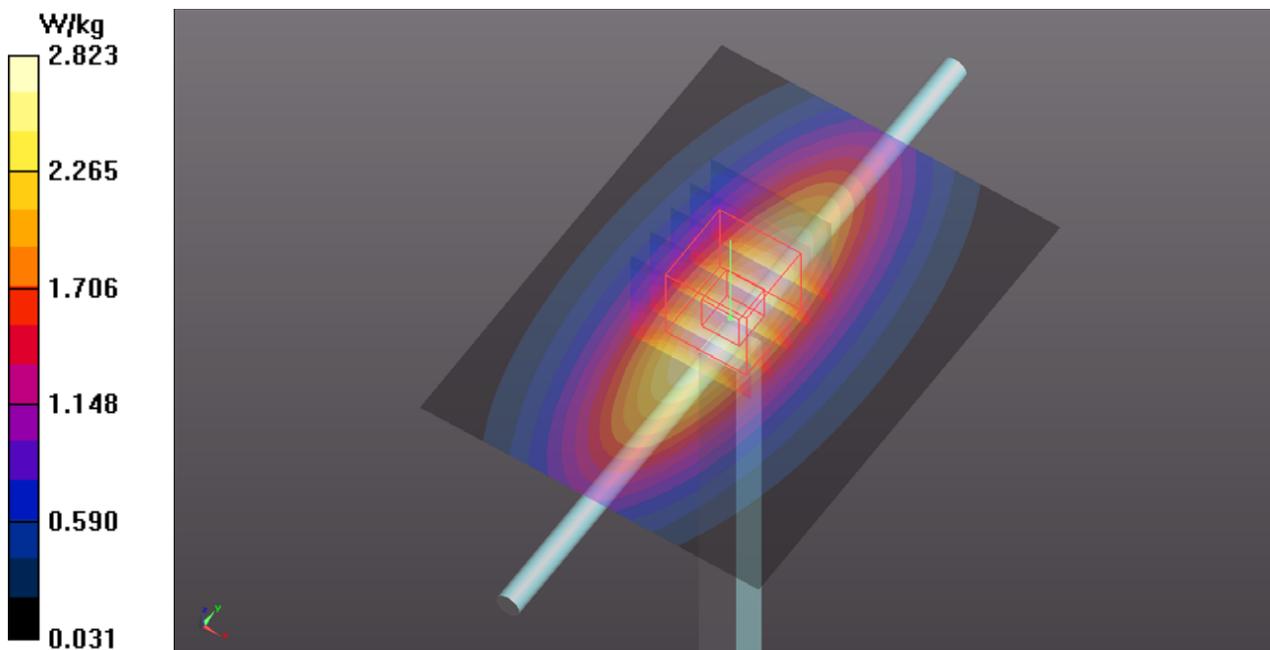
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.80 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.29 W/kg ; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 2.86 W/kg



System Check_B835_140906

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B08T09N1_0906 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.974 \text{ S/m}$; $\epsilon_r = 55.307$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $21.4 \text{ }^\circ\text{C}$; Liquid Temperature : $20.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(9.74, 9.74, 9.74); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.05 W/kg

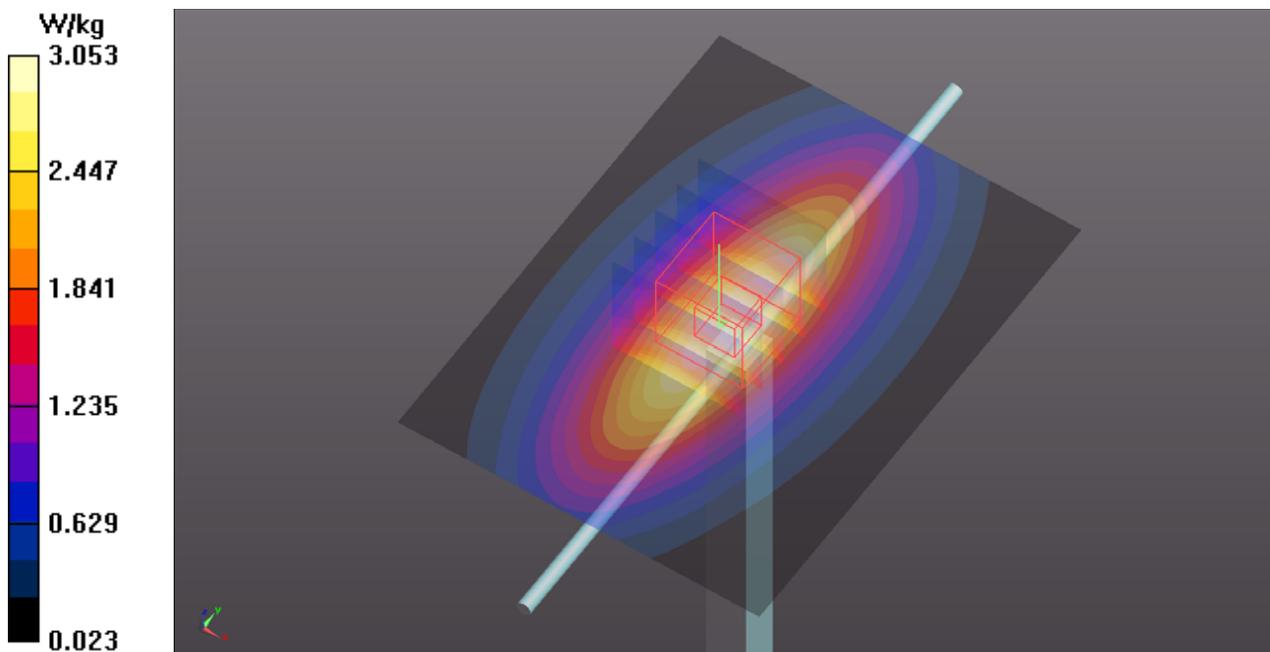
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.54 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 2.42 W/kg ; SAR(10 g) = 1.6 W/kg

Maximum value of SAR (measured) = 3.07 W/kg



System Check_B1750_141103

DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

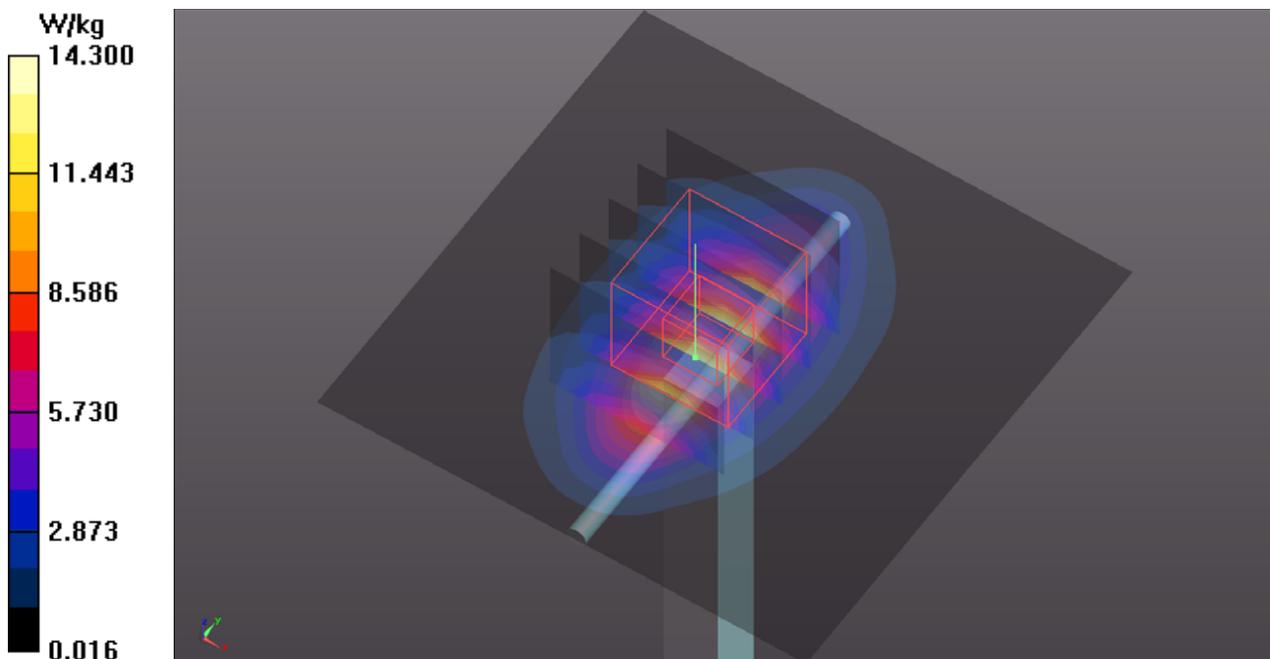
Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: B17T18N3_1103 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.499$ S/m; $\epsilon_r = 52.347$; $\rho = 1000$ kg/m³
Ambient Temperature : 21.6 °C; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 95.91 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 16.8 W/kg
SAR(1 g) = 9.65 W/kg; SAR(10 g) = 5.2 W/kg
Maximum value of SAR (measured) = 13.3 W/kg



System Check_B1900_140905

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B18T19N3_0905 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.557$ S/m; $\epsilon_r = 54.485$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.5 °C; Liquid Temperature : 20.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.68, 7.68, 7.68); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.2 W/kg

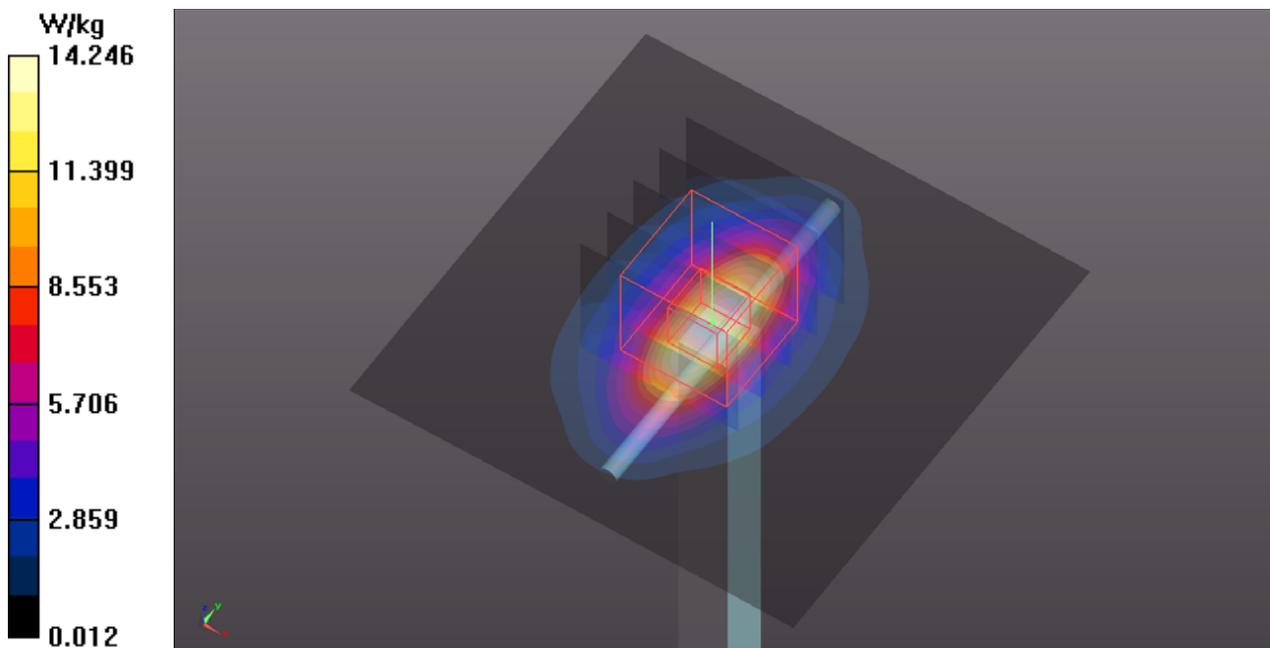
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 96.93 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 9.89 W/kg; SAR(10 g) = 5.07 W/kg

Maximum value of SAR (measured) = 14.3 W/kg



System Check_B2450_140825

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: B24T25N2_0825 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 51.396$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.29, 7.29, 7.29); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 19.6 W/kg

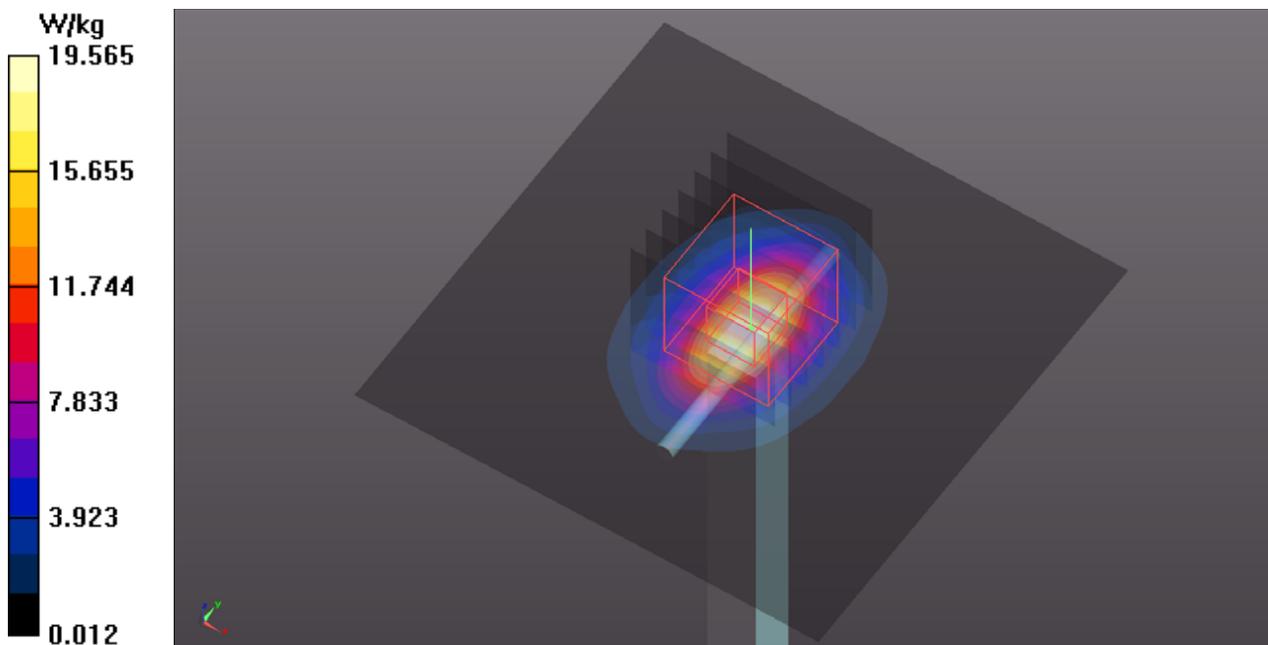
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.75 W/kg

Maximum value of SAR (measured) = 19.6 W/kg



System Check_B2600_141001

DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

Communication System: CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: B25T27N2_1001 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.211$ S/m; $\epsilon_r = 52.397$; $\rho = 1000$ kg/m³

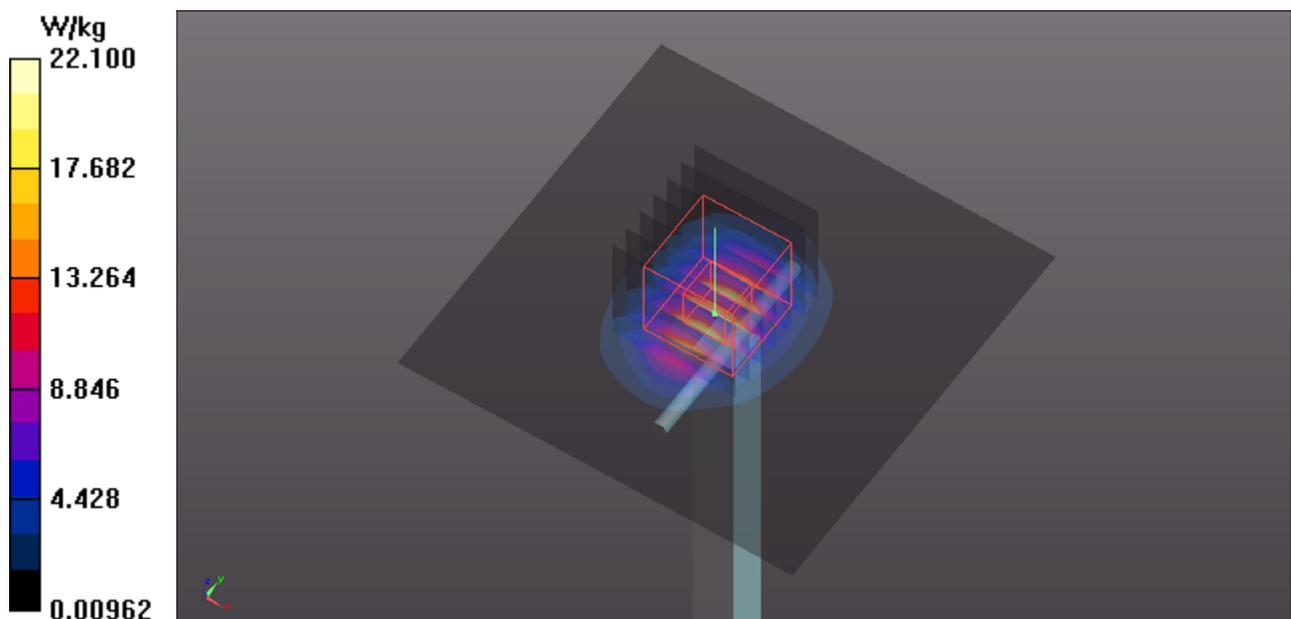
Ambient Temperature : 22.2 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.69, 6.69, 6.69); Calibrated: 2014/07/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2014/07/22
- Phantom: Flat Phantom ELI 5.0_Front; Type: QDOVA001BA; Serial: TP:1204
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 22.1 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.56 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 30.2 W/kg
SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.15 W/kg
Maximum value of SAR (measured) = 21.6 W/kg



System Check_B5200_140825

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: B50T60N1_0825 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.339$ S/m; $\epsilon_r = 47.479$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(4.59, 4.59, 4.59); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.7 W/kg

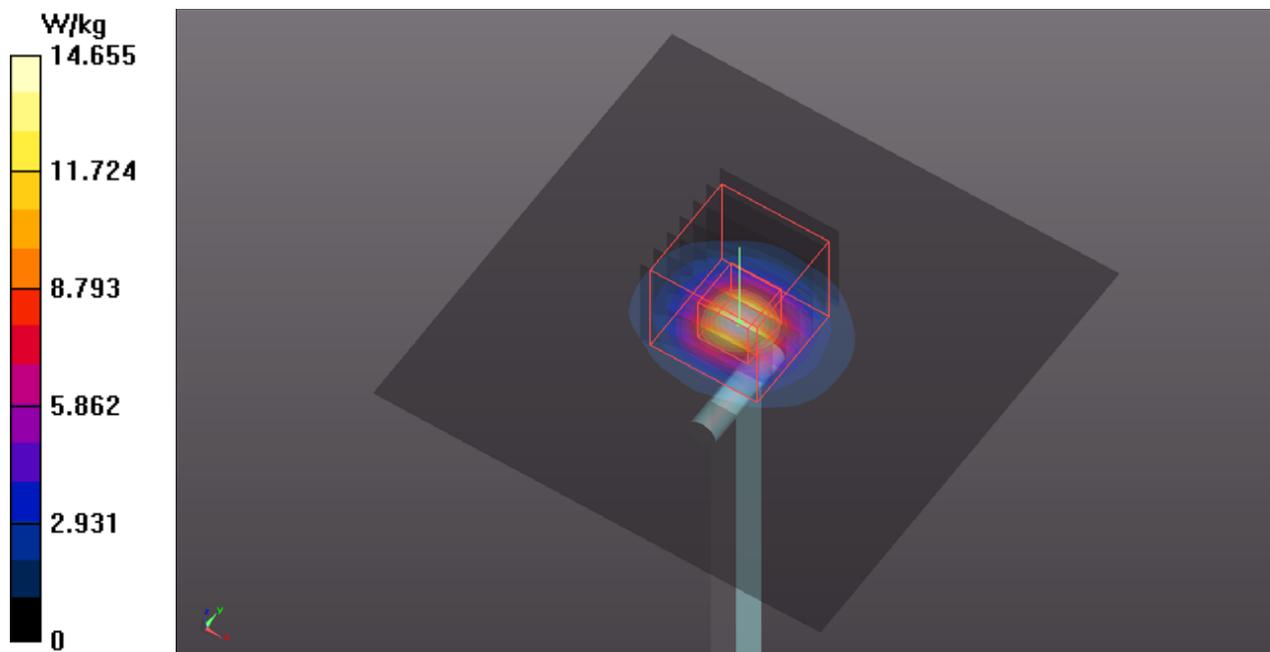
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.96 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 28.4 W/kg

SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.2 W/kg

Maximum value of SAR (measured) = 15.9 W/kg



System Check_B5300_140825

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: B50T60N1_0825 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.473$ S/m; $\epsilon_r = 47.306$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(4.19, 4.19, 4.19); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.5 W/kg

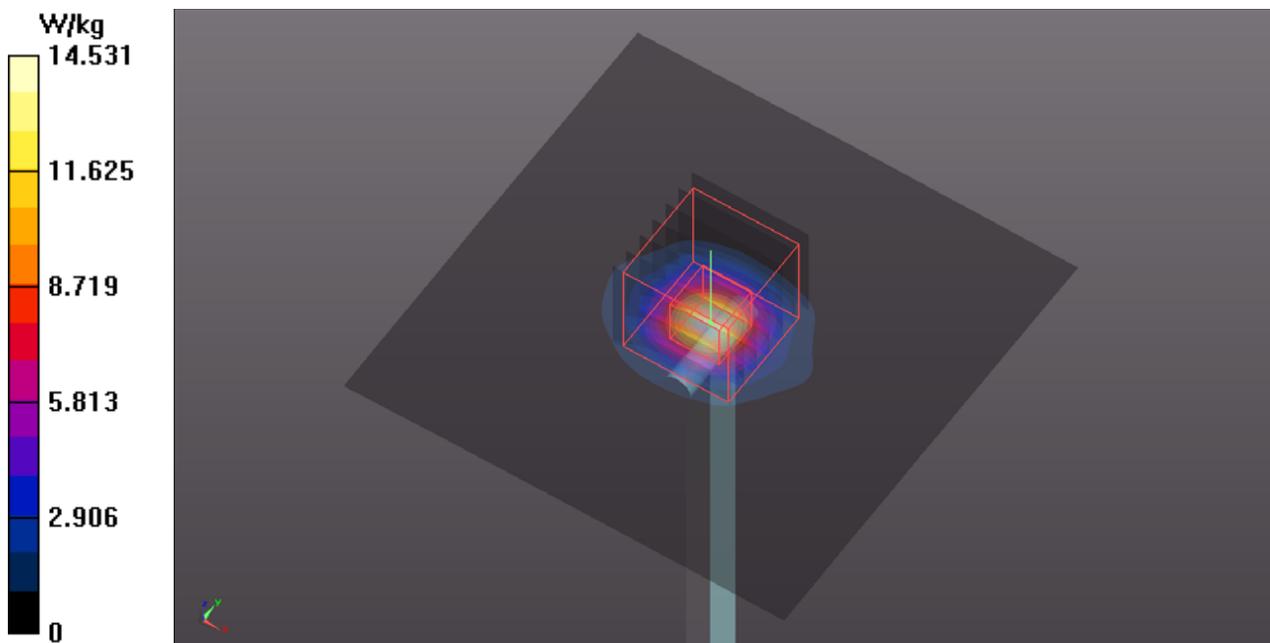
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.22 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 30.9 W/kg

SAR(1 g) = 7.32 W/kg; SAR(10 g) = 2.04 W/kg

Maximum value of SAR (measured) = 15.6 W/kg



System Check_B5600_140825

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B50T60N1_0825 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.903$ S/m; $\epsilon_r = 46.754$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(3.87, 3.87, 3.87); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

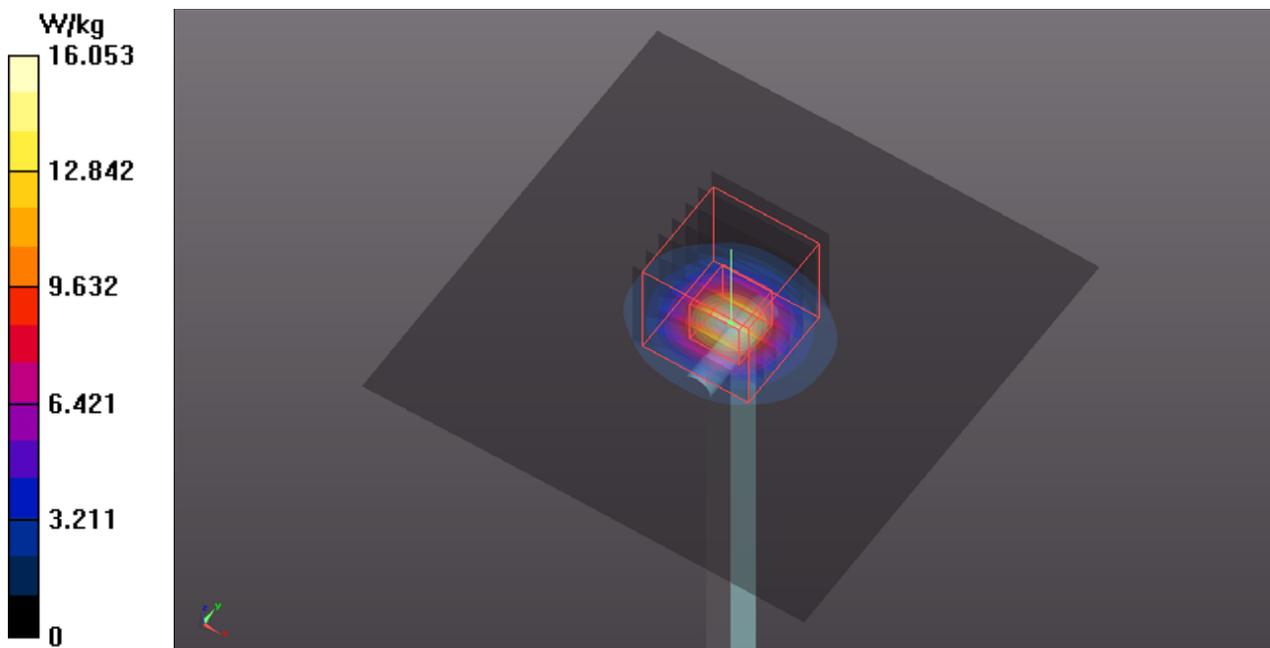
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.15 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 34.2 W/kg

SAR(1 g) = 7.65 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 16.4 W/kg



System Check_B5800_140825

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: B50T60N1_0825 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.19$ S/m; $\epsilon_r = 46.373$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(4.12, 4.12, 4.12); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.2 W/kg

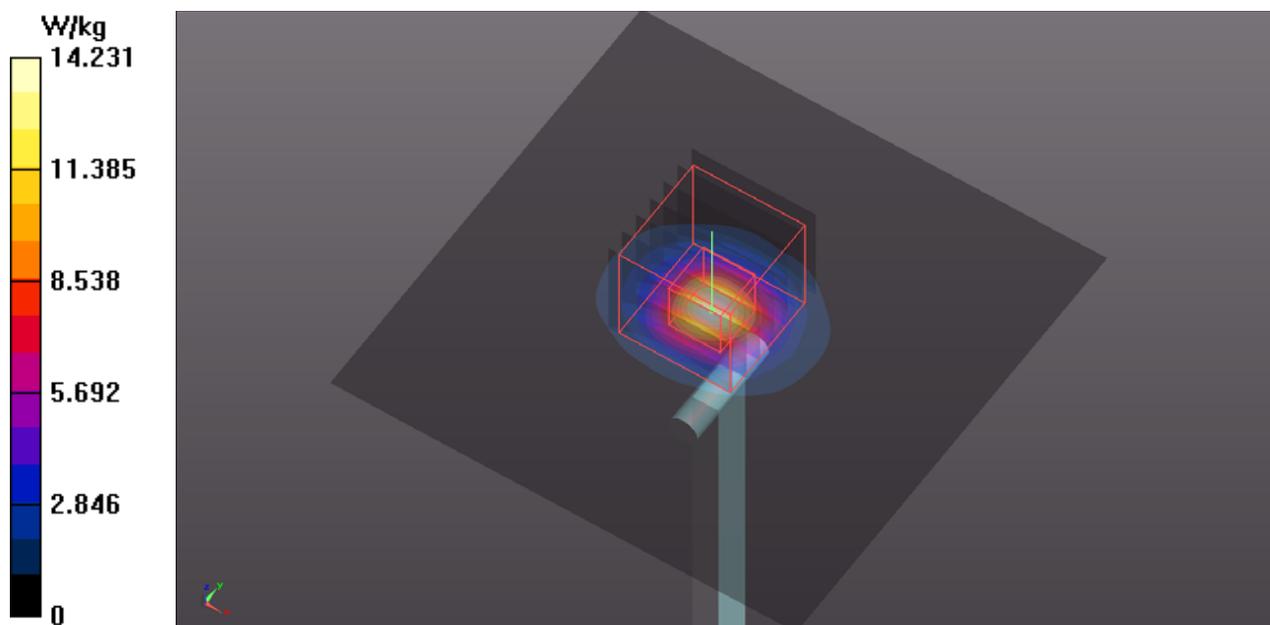
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 52.82 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 29.5 W/kg

SAR(1 g) = 7.03 W/kg; SAR(10 g) = 1.97 W/kg

Maximum value of SAR (measured) = 15.1 W/kg





Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 GSM850_GPRS10_Rear Face_0mm_Ch189_w/ Pw Reduction

DUT: 140714C26

Communication System: GPRS10; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: B08T09N1_0906 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 55.302$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.4 °C; Liquid Temperature : 20.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(9.74, 9.74, 9.74); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

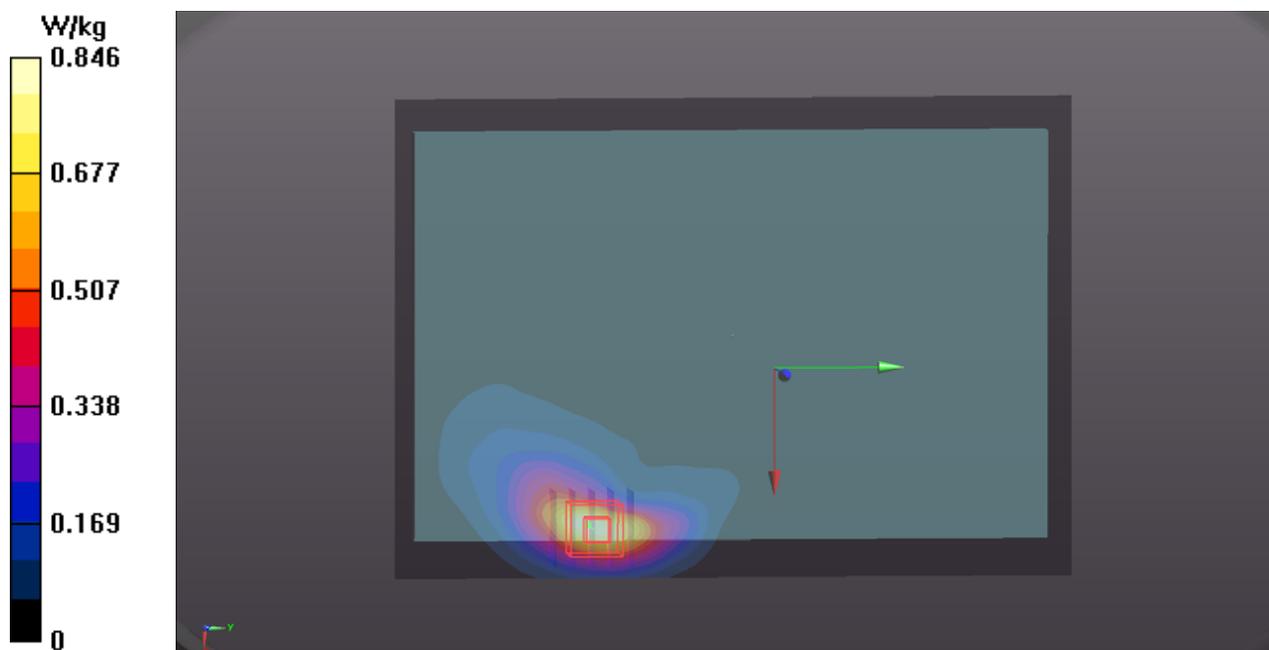
- **Area Scan (141x191x1)**: Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.846 W/kg

- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.361 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.383 W/kg

Maximum value of SAR (measured) = 0.923 W/kg



P02 GSM1900_GPRS10_Rear Face_0mm_Ch810_w/ Pw Reduction

DUT: 140714C26

Communication System: GPRS10; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: B18T19N3_0905 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.568$ S/m; $\epsilon_r = 54.449$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.5 °C; Liquid Temperature : 20.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.68, 7.68, 7.68); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (141x191x1)**: Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

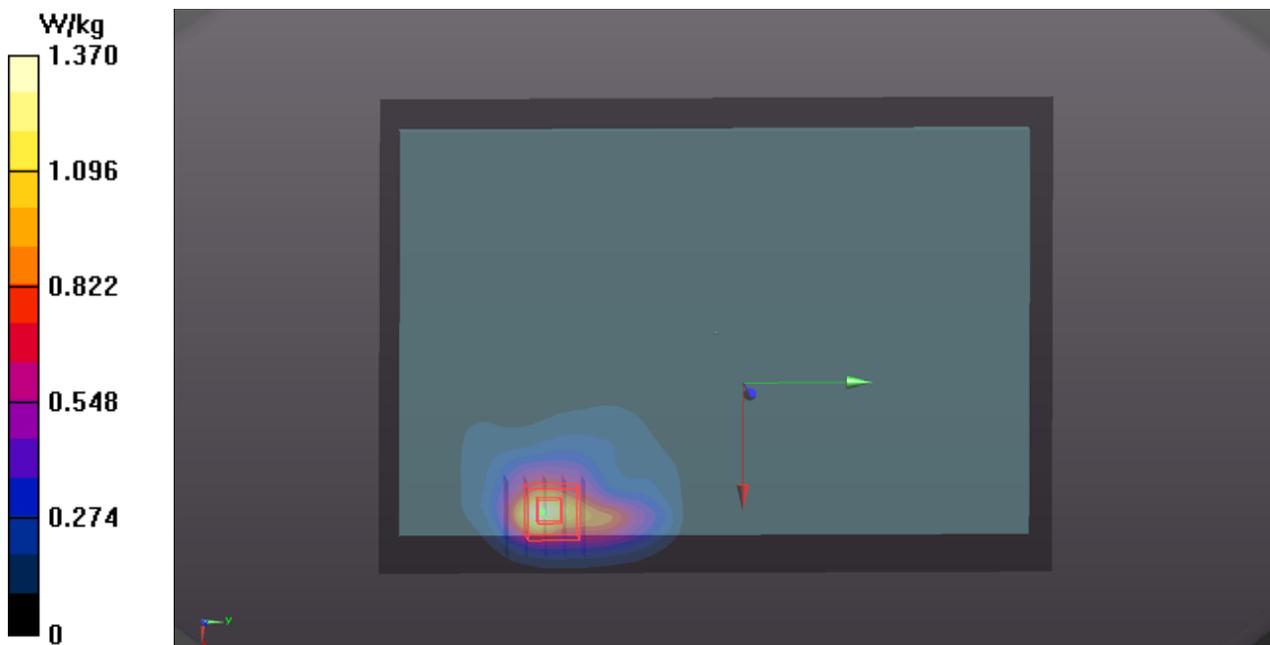
- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.280 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.593 W/kg

Maximum value of SAR (measured) = 1.54 W/kg



P03 WCDMA II_RMC12.2K_Rear Face_0mm_Ch9538_w/ Pw Reduction

DUT: 140714C26

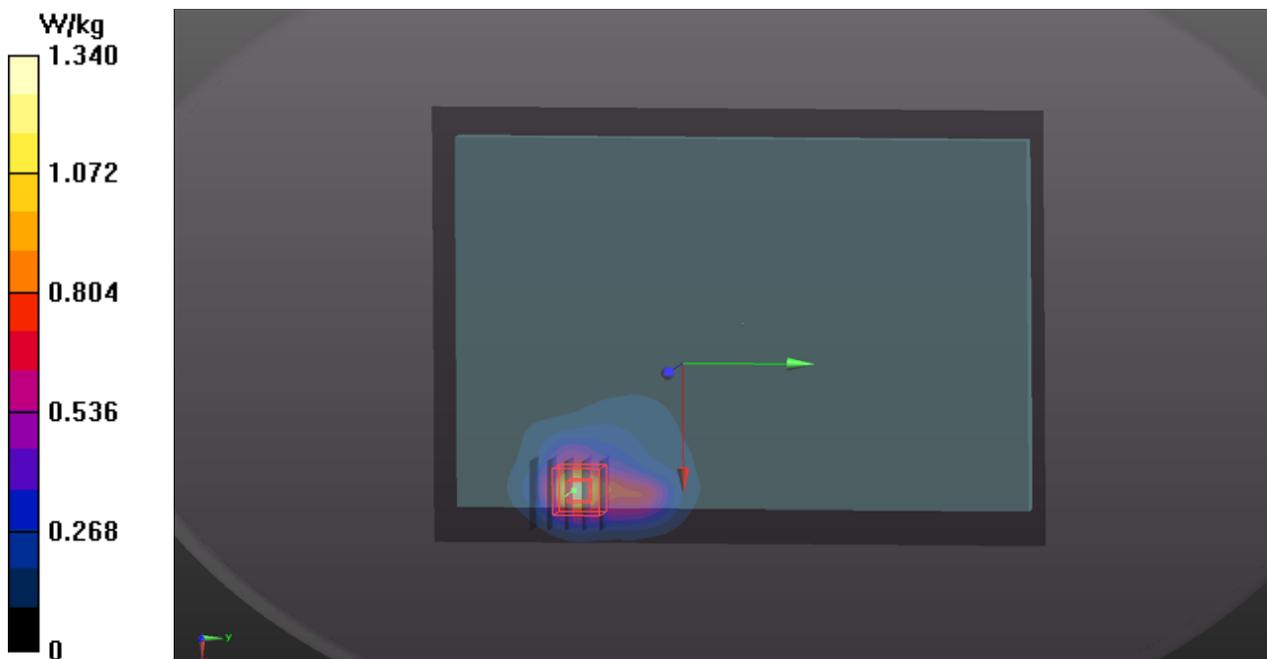
Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: B18T19N3_0905 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.566$ S/m; $\epsilon_r = 54.456$; $\rho = 1000$ kg/m³
Ambient Temperature : 21.5 °C; Liquid Temperature : 20.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.68, 7.68, 7.68); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (141x191x1)**: Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.088 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.71 W/kg
SAR(1 g) = 0.935 W/kg; SAR(10 g) = 0.547 W/kg
Maximum value of SAR (measured) = 1.30 W/kg



P04 WCDMA IV_RMC12.2K_Top Side_15mm_Ch1513_w/o Pw Reduction

DUT: 140714C26

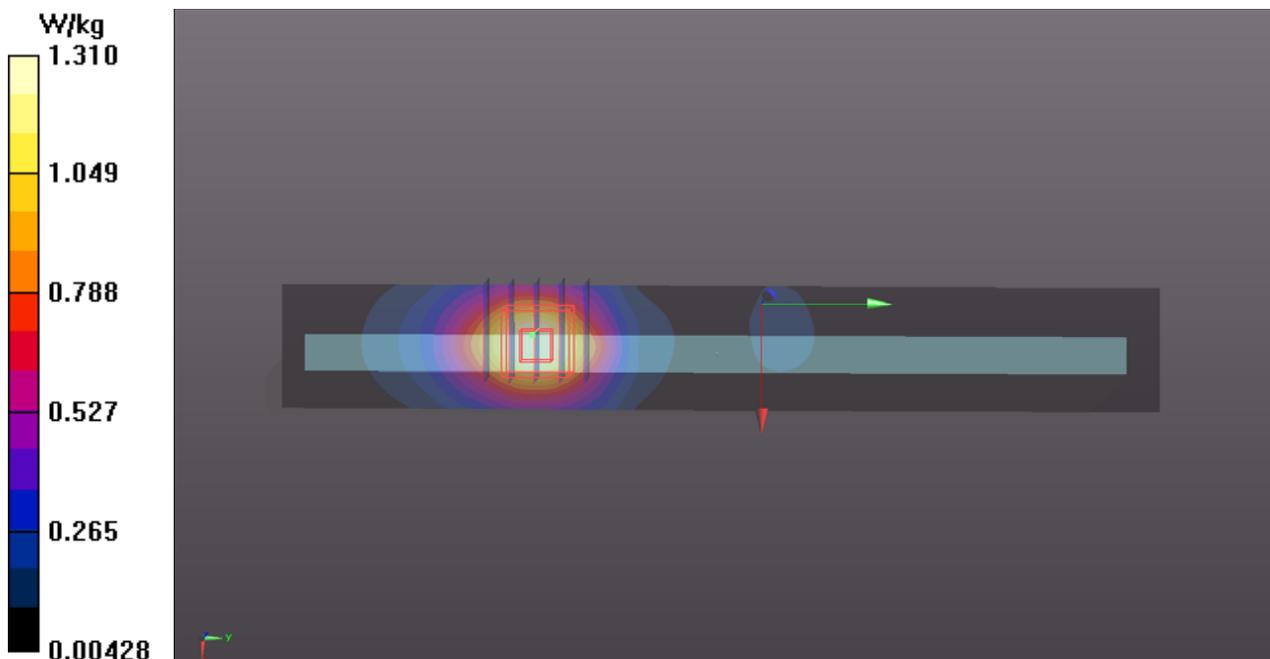
Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: B17T18N3_1103 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 52.334$; $\rho = 1000$ kg/m³
Ambient Temperature : 21.6 °C; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (31x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.31 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.121 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.52 W/kg
SAR(1 g) = 0.993 W/kg; SAR(10 g) = 0.611 W/kg
Maximum value of SAR (measured) = 1.24 W/kg



P05 WCDMA V_RMC12.2K_Rear Face_0mm_Ch4233_w/ Pw Reduction

DUT: 140714C26

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B08T09N1_0906 Medium parameters used: $f = 847$ MHz; $\sigma = 0.986$ S/m; $\epsilon_r = 55.231$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.4 °C; Liquid Temperature : 20.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(9.74, 9.74, 9.74); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (141x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.822 W/kg

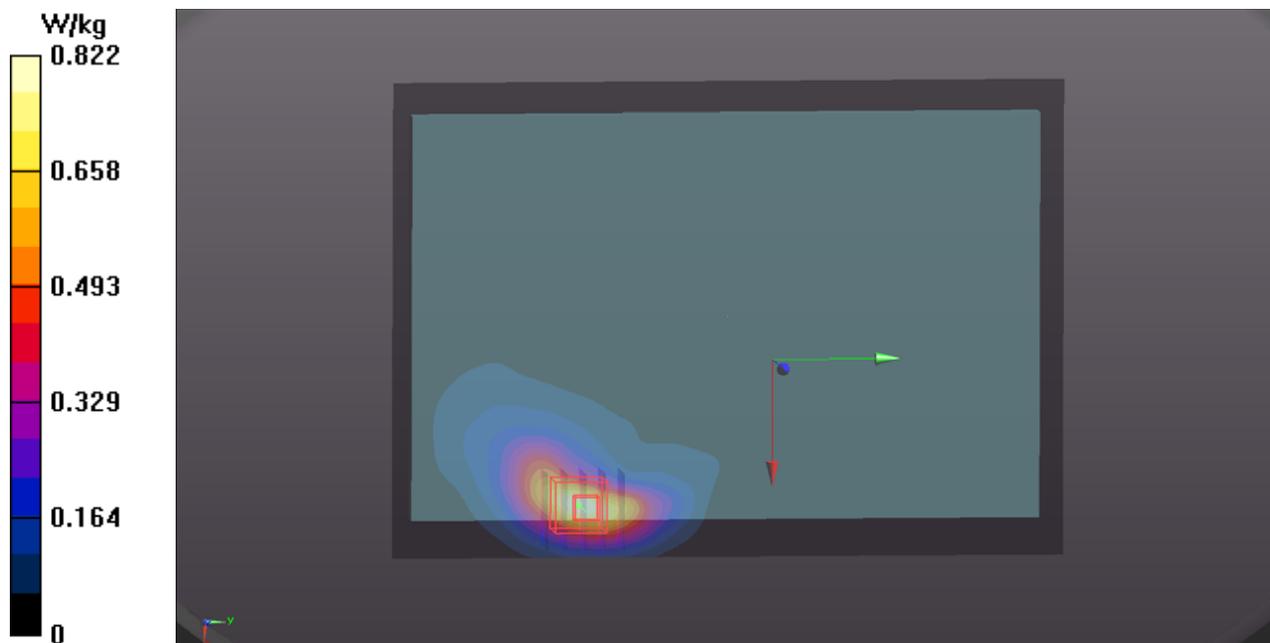
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.642 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.574 W/kg; SAR(10 g) = 0.333 W/kg

Maximum value of SAR (measured) = 0.805 W/kg



P06 LTE2_QPSK20M_Top Side_15mm_Ch18700_1RB_0OS_w/o Pw Reduction

DUT: 140714C26

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: B18T19N3_0905 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.519$ S/m; $\epsilon_r = 54.55$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.5 °C; Liquid Temperature : 20.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.68, 7.68, 7.68); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (61x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.74 W/kg

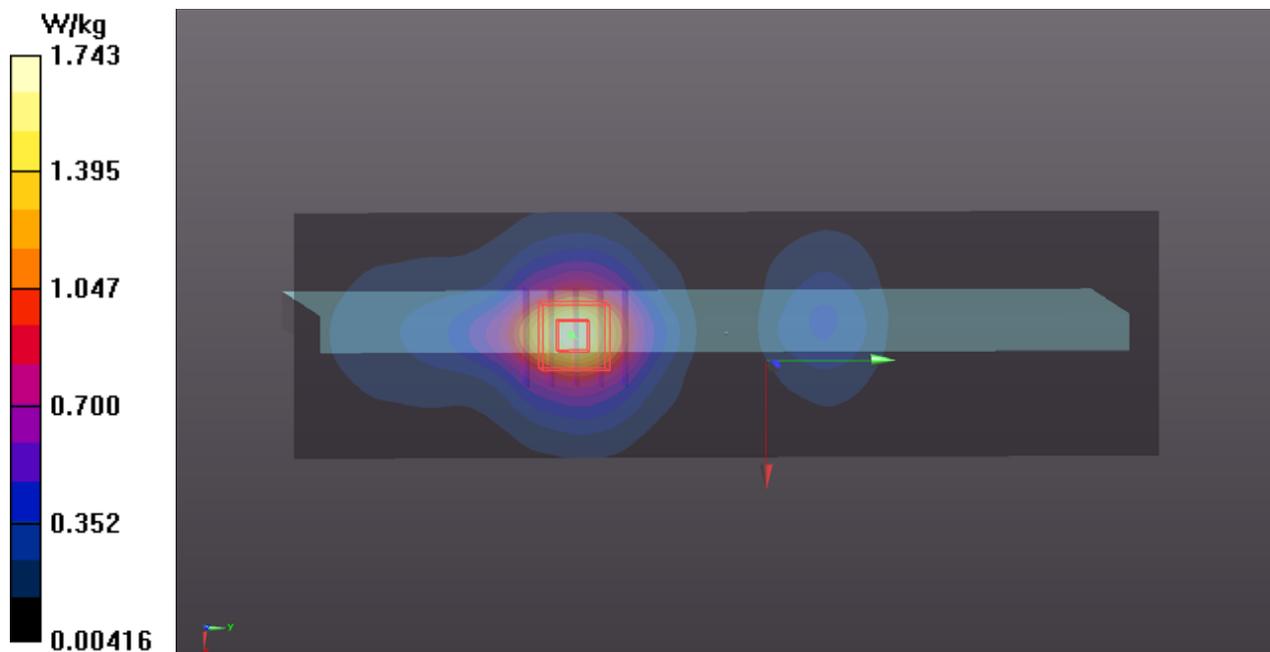
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.772 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.624 W/kg

Maximum value of SAR (measured) = 1.60 W/kg



P07 LTE4_QPSK20M_Top Side_15mm_Ch20300_1RB_0OS_w/o Pw Reduction

DUT: 140714C26

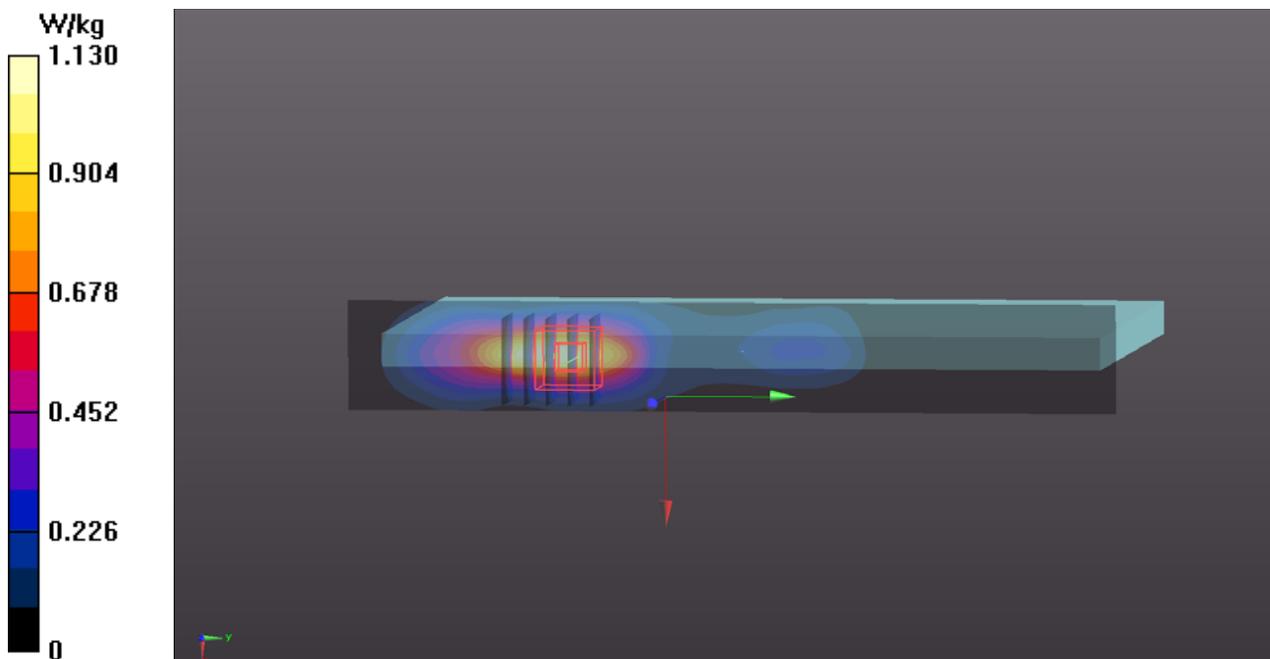
Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium: B17T18N3_0905 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.488$ S/m; $\epsilon_r = 52.242$; $\rho = 1000$ kg/m³
Ambient Temperature : 21.6 °C; Liquid Temperature : 20.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (31x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.13 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.18 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.36 W/kg
SAR(1 g) = 1.10 W/kg; SAR(10 g) = 0.688 W/kg
Maximum value of SAR (measured) = 1.09 W/kg



P08 LTE 5_QPSK10M_Rear Face_0mm_Ch20450_1RB_OS0_w/ Pw Reduction

DUT: 140714C26

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B08T09N1_0906 Medium parameters used: $f = 829$ MHz; $\sigma = 0.968$ S/m; $\epsilon_r = 55.347$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.4 °C; Liquid Temperature : 20.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(9.74, 9.74, 9.74); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (141x191x1)**: Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.878 W/kg

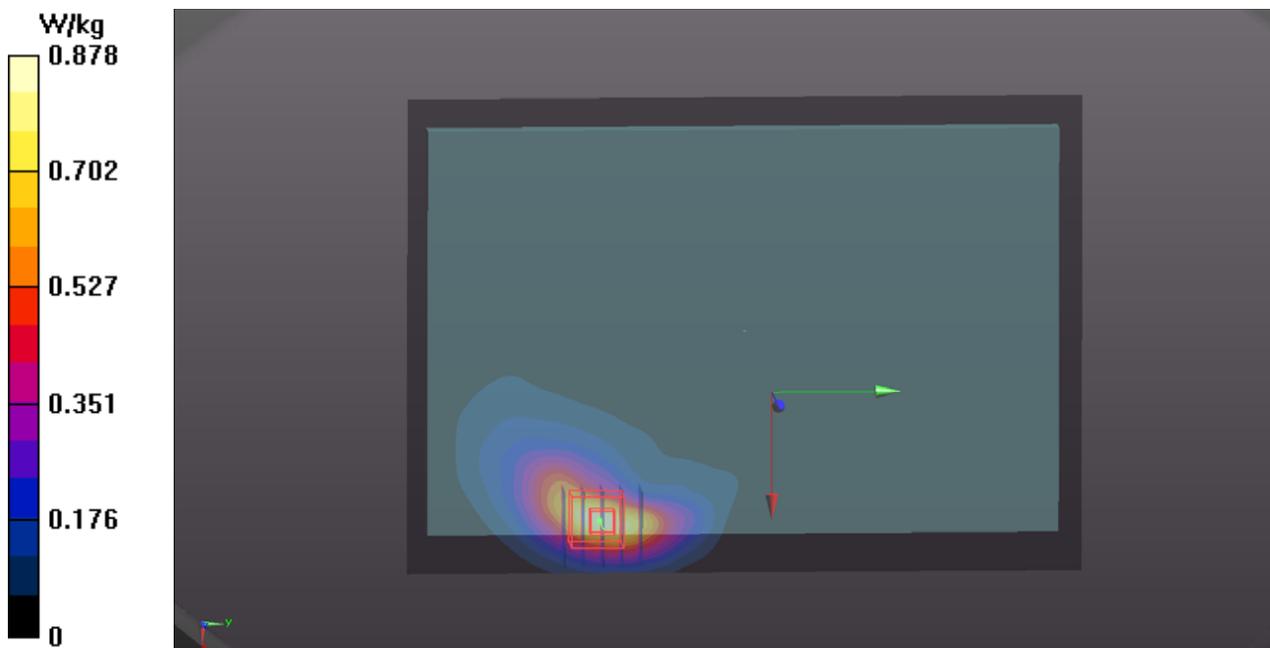
- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.213 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.628 W/kg; SAR(10 g) = 0.368 W/kg

Maximum value of SAR (measured) = 0.876 W/kg



P09 LTE 7_QPSK20M_Rear Face_0mm_Ch21350_1RB_OS0_w/ Pw Reduction

DUT: 140714C26

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: B25T27N2_1001 Medium parameters used: $f = 2560$ MHz; $\sigma = 2.158$ S/m; $\epsilon_r = 52.557$; $\rho = 1000$ kg/m³

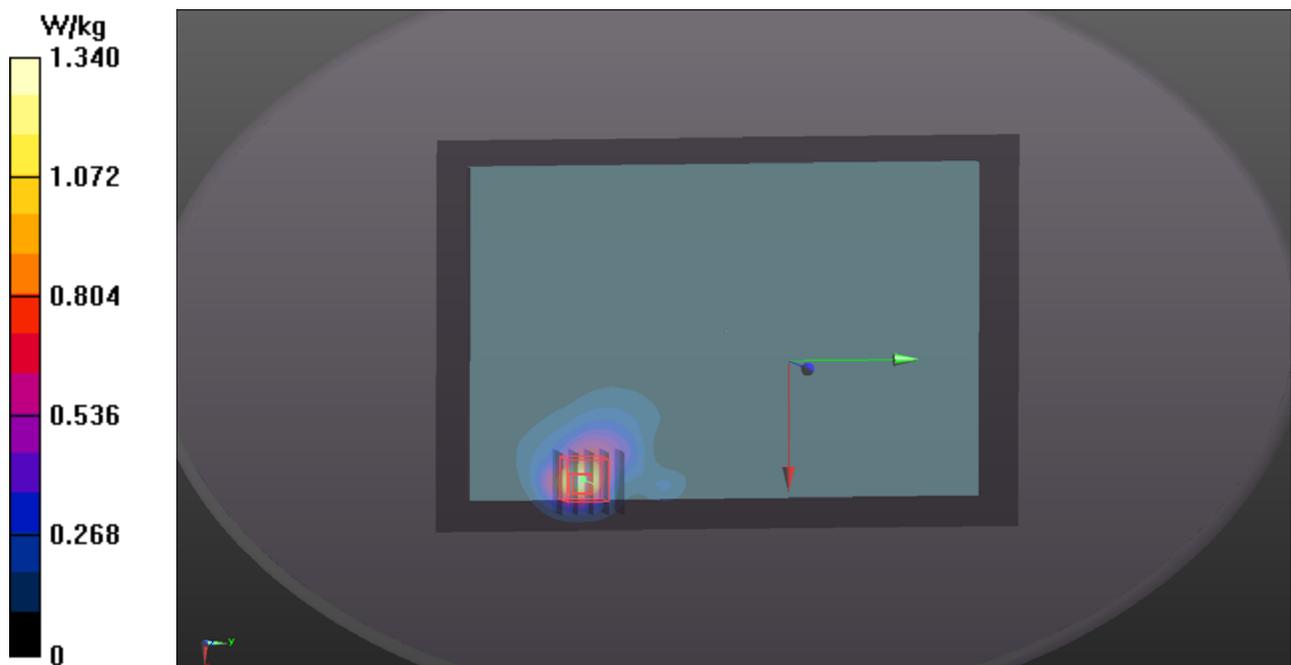
Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(6.69, 6.69, 6.69); Calibrated: 2014/07/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2014/07/22
- Phantom: Flat Phantom ELI 5.0_Front; Type: QDOVA001BA; Serial: TP:1204
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (171x251x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.80 W/kg
SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.404 W/kg
Maximum value of SAR (measured) = 1.32 W/kg



P10 LTE 13_QPSK10M_Rear Face_0mm_Ch23230_1RB_OS24_w/ Pw Reduction**DUT: 140714C26**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: B07T08N1_0906 Medium parameters used: $f = 782$ MHz; $\sigma = 0.992$ S/m; $\epsilon_r = 54.935$; $\rho = 1000$ kg/m³

Ambient Temperature : 21.3 °C; Liquid Temperature : 20.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(9.91, 9.91, 9.91); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (141x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

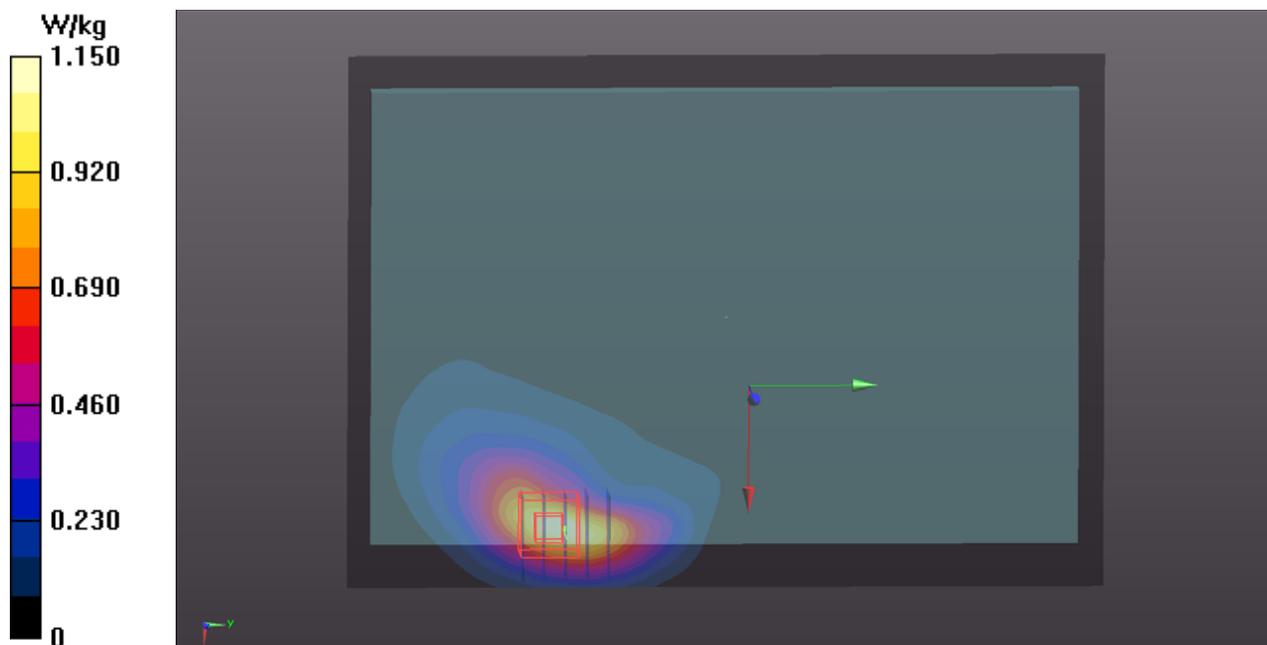
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.091 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.495 W/kg

Maximum value of SAR (measured) = 1.14 W/kg



P11 LTE 17_QPSK10M_Rear Face_0mm_Ch23800_1RB_OS0_w/ Pw Reduction

DUT: 140714C26

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: B07T08N1_0906 Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.934 \text{ S/m}$; $\epsilon_r = 55.577$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $21.3 \text{ }^\circ\text{C}$; Liquid Temperature : $20.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(9.91, 9.91, 9.91); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (141x191x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.24 W/kg

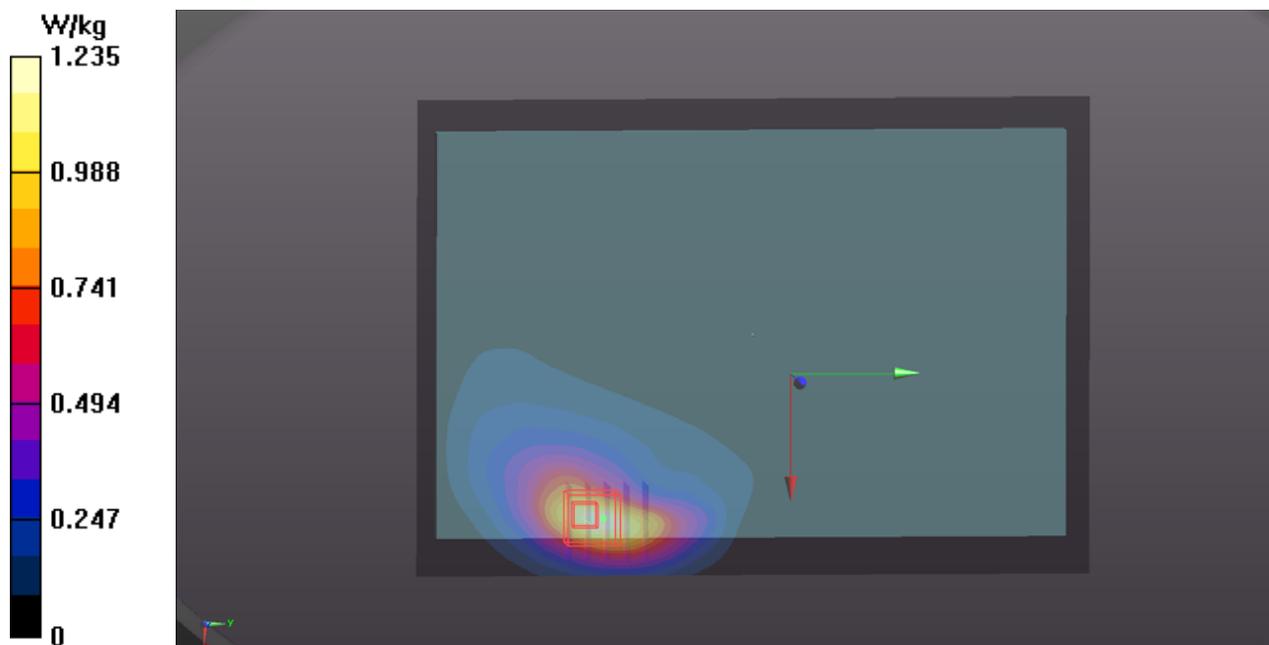
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.875 V/m ; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.944 W/kg ; SAR(10 g) = 0.569 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



P12 802.11b_Rear Face_0cm_Ch11

DUT: 140714C26

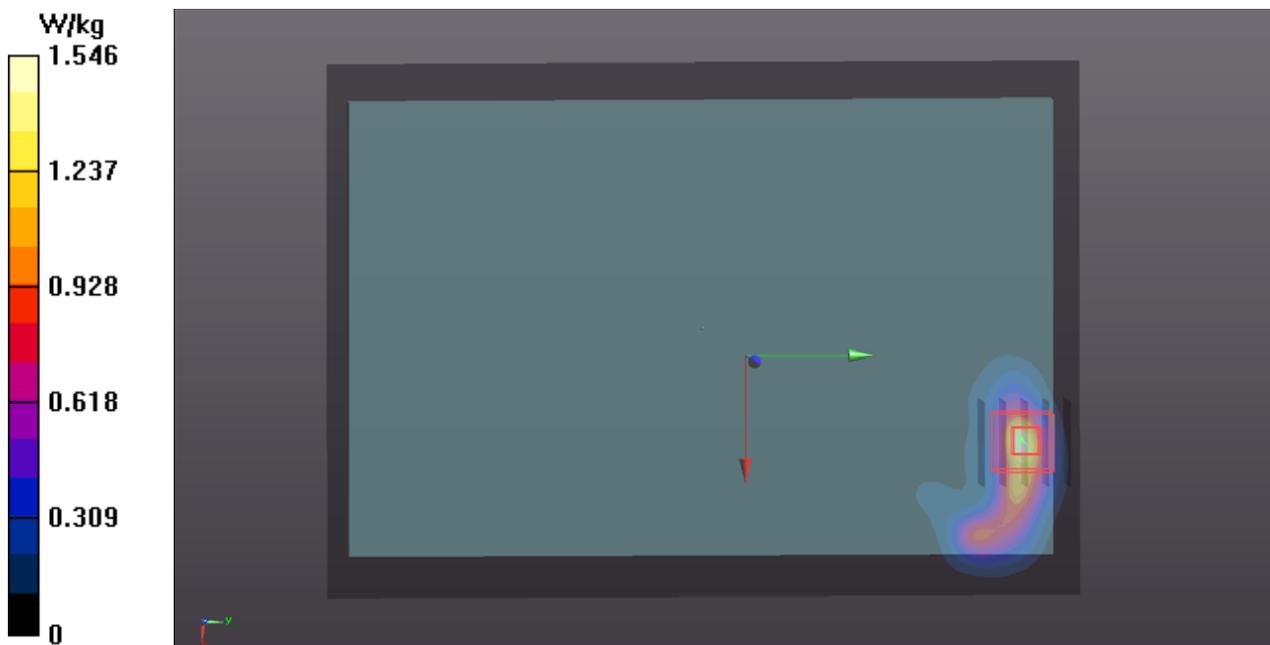
Communication System: WLAN_2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: B24T25N2_0825 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.988$ S/m; $\epsilon_r = 51.399$; $\rho = 1000$ kg/m³
Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.29, 7.29, 7.29); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (171x241x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.55 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.2440 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.61 W/kg
SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.303 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



P13 802.11a_Rear Face_0cm_Ch36

DUT: 140714C26

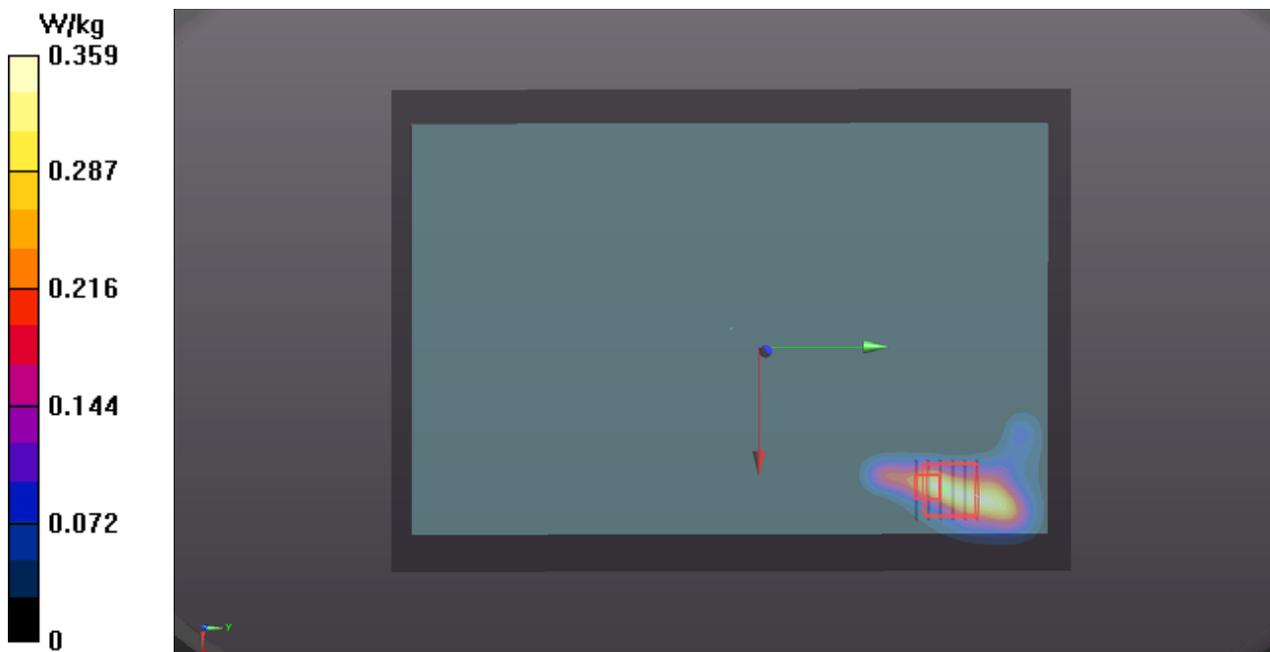
Communication System: WLAN_5G; Frequency: 5180 MHz; Duty Cycle: 1:1.11
Medium: B50T60N1_0825 Medium parameters used: $f = 5180$ MHz; $\sigma = 5.307$ S/m; $\epsilon_r = 47.569$; $\rho = 1000$ kg/m³
Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(4.59, 4.59, 4.59); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (201x281x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.359 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.904 W/kg
SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.047 W/kg
Maximum value of SAR (measured) = 0.543 W/kg



P14 802.11a_Top Side_0cm_Ch60

DUT: 140714C26

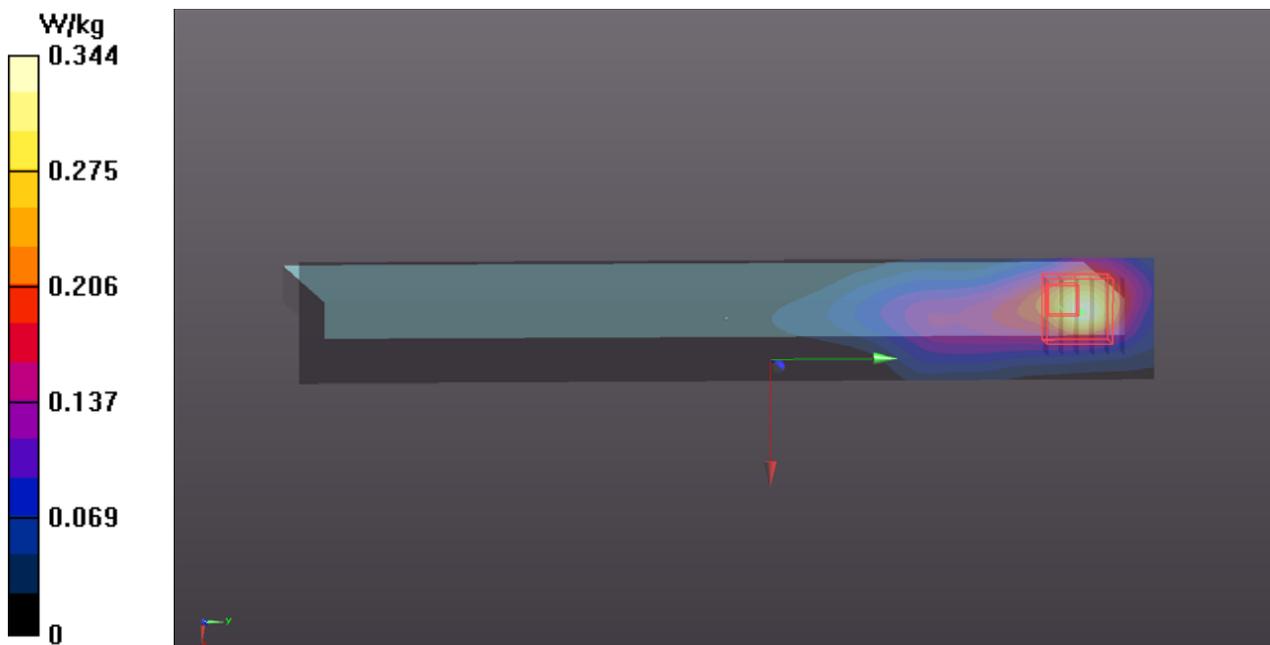
Communication System: WLAN_5G; Frequency: 5300 MHz; Duty Cycle: 1:1.1
Medium: B50T60N1_0825 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.473$ S/m; $\epsilon_r = 47.306$; $\rho = 1000$ kg/m³
Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(4.19, 4.19, 4.19); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (41x281x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.344 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 1.878 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.112 W/kg
Maximum value of SAR (measured) = 0.724 W/kg



P15 802.11a_Top Side_0cm_Ch140

DUT: 140714C26

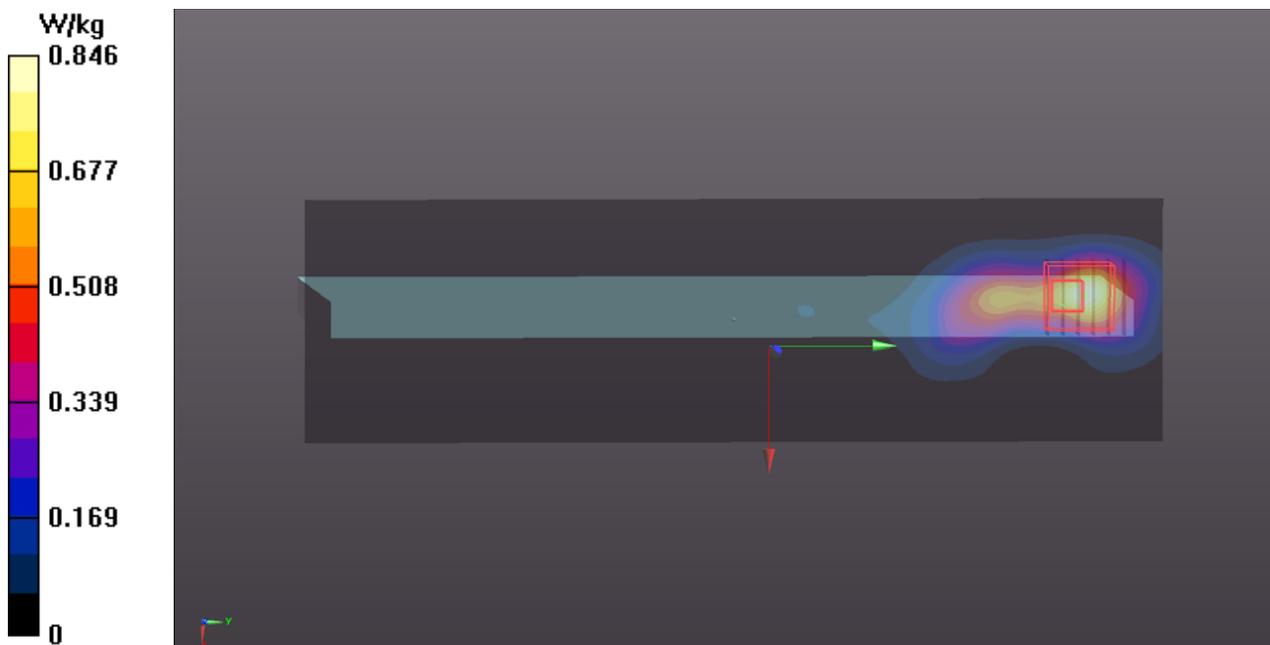
Communication System: WLAN_5G; Frequency: 5700 MHz; Duty Cycle: 1:1.13
Medium: B50T60N1_0825 Medium parameters used: $f = 5700$ MHz; $\sigma = 6.046$ S/m; $\epsilon_r = 46.566$; $\rho = 1000$ kg/m³
Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(3.87, 3.87, 3.87); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x281x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.846 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 1.961 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 4.60 W/kg
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.294 W/kg
Maximum value of SAR (measured) = 2.06 W/kg



P16 802.11a_Top Side_0cm_Ch157

DUT: 140714C26

Communication System: WLAN_5G; Frequency: 5785 MHz; Duty Cycle: 1:1
Medium: B50T60N1_0825 Medium parameters used: $f = 5785$ MHz; $\sigma = 6.168$ S/m; $\epsilon_r = 46.384$; $\rho = 1000$ kg/m³
Ambient Temperature : 22.6 °C; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(4.12, 4.12, 4.12); Calibrated: 2014/03/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2014/03/24
- Phantom: ELI 5.0_Left; Type: QDOVA001BB; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x281x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.886 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 1.513 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 4.52 W/kg
SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.271 W/kg
Maximum value of SAR (measured) = 2.01 W/kg

