FCC SAR Test Report

Report No.	:	**SA171201W001**
Applicant	:	**Sonim Technologies, Inc.**
Address	:	**1825 S. Grant St., Suite 200., San Mateo, CA, 94402**
Product	:	**Mobile Phone**
FCC ID	:	**WYPPG4032**
Brand	:	**Sonim**
Model No.	:	**XP8800**
Standards	:	**FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2013** **KDB 865664 D01 v01r04 / KDB 865664 D02 v01r02** **KDB 248227 D01 v02r02 / KDB 447498 D01 v06** **KDB 648474 D04 v01r03 / KDB 941225 D01 v03r01** **KDB 941225 D05 v02r05 / KDB 941225 D06 v02r01**
Sample Received Date	:	**Nov. 20, 2017**
Date of Testing	:	**Nov. 21, 2017 ~ Dec. 11, 2017**

CERTIFICATION: The above equipment have been tested by **BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD.**, 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 A2LA or any government agencies.

Prepared By : Kei Zhang / Engineer

Approved By : Bill Yao / Manager

ACCREDITED
Certificate # 3939.01

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Release Control Record

Report No.	Reason for Change	Date Issued
SA170730W002	Initial release	Dec. 07, 2017
SA171201W001	Based on the original report SA170730W002 disable CDMA function.	Dec. 13, 2017

1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Head SAR_{1g} (W/kg)	Highest Reported Body-worn SAR_{1g} (1.0 cm Gap) (W/kg)	Highest Reported Hotspot SAR_{1g} (1.0 cm Gap) (W/kg)	Highest Reported Extremity SAR_{10g} (0 cm Gap) (W/kg)
PCE	GSM850	0.37	0.59	0.59	-
	GSM1900	0.34	0.57	0.57	-
	WCDMA II	0.68	1.34	1.34	3.58
	WCDMA IV	0.51	1.32	1.32	3.06
	WCDMA V	0.33	0.68	0.68	-
	LTE 2	0.63	1.09	1.09	-
	LTE 4	0.57	1.18	1.18	3.14
	LTE 5	0.32	0.52	0.52	-
	LTE 7	0.44	1.19	1.19	1.14
	LTE 12	0.22	0.57	0.57	-
	LTE 13	0.23	0.48	0.48	-
	LTE 14	0.25	0.52	0.52	-
	LTE 25	0.60	1.20	1.20	3.25
	LTE 26	0.35	0.57	0.57	-
	LTE 30	0.43	0.46	0.63	-
	LTE 38	0.23	0.57	0.57	-
	LTE 40	0.36	0.37	0.50	-
	LTE 41	0.20	0.52	0.52	-
	LTE 66	0.59	1.39	1.39	3.26
DTS	2.4G WLAN	0.66	0.15	0.15	-
NII	5.2G WLAN	1.24	-	0.84	N/A
	5.3G WLAN	1.37	0.90	-	1.19
	5.6G WLAN	1.30	0.61	-	0.88
	5.8G WLAN	1.36	0.50	0.50	N/A
DSS	Bluetooth	0.06	0.04	0.04	N/A
DXX	NFC	N/A	N/A	N/A	N/A
Highest Simultaneous Transmission SAR		Head (W/kg)	Body-worn (W/kg)	Hotspot (W/kg)	Extremity (W/kg)
PCE + DTS		1.34	1.54	1.54	-
PCE + NII		1.59	1.58	1.52	2.33
PCE + DSS		1.52	1.43	1.43	-

Note:

1. The SAR limit **(Head & Body: SAR_{1g} 1.6 W/kg, Extremity: SAR_{10g} 4.0 W/kg)** for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

2. Description of Equipment Under Test

EUT Type	Mobile Phone
FCC ID	WYPPG4032
Brand Name	Sonim
Model Name	XP8800
Type Number	PG4032/PG4033/PG4034/PG4035/PG4012/PG4041/PG4022
IMEI Code	001080001943597
HW Version	A
SW Version	8A.0.0-00-7.1.1-00.01.26
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 12 : 699.7 ~ 715.3 (1.4M), 700.5 ~ 714.5 (3M), 701.5 ~ 713.5 (5M), 704 ~ 711 (10M) LTE Band 13 : 779.5 ~ 784.5 (5M), 782 (10M) LTE Band 14 : 790.5 ~ 795.5 (5M), 793 (10M) LTE Band 25 : 1850.7 ~ 1914.3 (1.4M), 1851.5 ~ 1913.5 (3M), 1852.5 ~ 1912.5 (5M), 1855 ~ 1910 (10M), 1857.5 ~ 1907.5 (15M), 1860 ~ 1905 (20M) LTE Band 26 : 814.7 ~ 848.3 (1.4M), 815.5 ~ 847.5 (3M), 816.5 ~ 846.5 (5M), 819 ~ 844 (10M), 821.5 ~ 841.5 (15M) LTE Band 30 : 2307.5 ~ 2312.5 (5M), 2310 (10M) LTE Band 38 : 2572.5 ~ 2617.5 (5M), 2575 ~ 2615 (10M), 2577.5 ~ 2612.5(15M), 2580 ~ 2610 (20M) LTE Band 40 : 2307.5 ~ 2312.5 (5M), 2310 (10M) LTE Band 41 : 2498.5 ~ 2687.5 (5M), 2501 ~ 2685 (10M), 2503.5 ~ 2682.5 (15M), 2506 ~ 2680 (20M) LTE Band 66 : 1710.7 ~ 1779.3 (1.4M), 1711.5 ~ 1778.5 (3M), 1712.5 ~ 1777.5 (5M), 1715 ~ 1775 (10M), 1717.5 ~ 1772.5 (15M), 1720 ~ 1770 (20M) WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 Bluetooth : 2402 ~ 2480 NFC : 13.56
Uplink Modulations	GSM & GPRS : GMSK EDGE : 8PSK WCDMA : QPSK LTE : QPSK, 16QAM, 64QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, π/4-DQPSK, 8-DPSK, LE NFC : ASK
Maximum Tune-up Conducted Power (Unit: dBm)	GSM850 : 33.0 GSM1900 : 30.8 WCDMA Band II : 25.0 WCDMA Band IV : 24.5 WCDMA Band V : 25.0 LTE Band 2 : 24.2 LTE Band 4 : 24.2 LTE Band 5 : 24.0 LTE Band 7 : 24.0 LTE Band 12 : 24.0 LTE Band 13 : 24.0 LTE Band 14 : 24.0 LTE Band 25 : 24.2 LTE Band 26 : 24.5

	LTE Band 30 : 24.0 LTE Band 38 : 24.0 LTE Band 40 : 23.5 LTE Band 41 : 24.5 LTE Band 66 : 24.2 WLAN 2.4G : 18.0 WLAN 5.2G : 17.0 WLAN 5.3G : 18.0 WLAN 5.6G : 17.0 WLAN 5.8G : 17.5 Bluetooth : 9.5
Antenna Type	WLAN: PIFA Antenna WWAN: Fixed Internal Antenna
EUT Stage	Production Unit

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:

Battery	**Brand Name**	Sonim
	Model Name	BAT-04900-01S
	Power Rating	3.85Vdc, 4900mAh
	Type	Li-ion

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:

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

SAR is expressed in units of Watts per kilogram (W/kg)
SAR measurement can be related to the electrical field in the tissue by

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

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 DASY5 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 form the optical into digital electric signal of the DAE and transfers data to the PC.

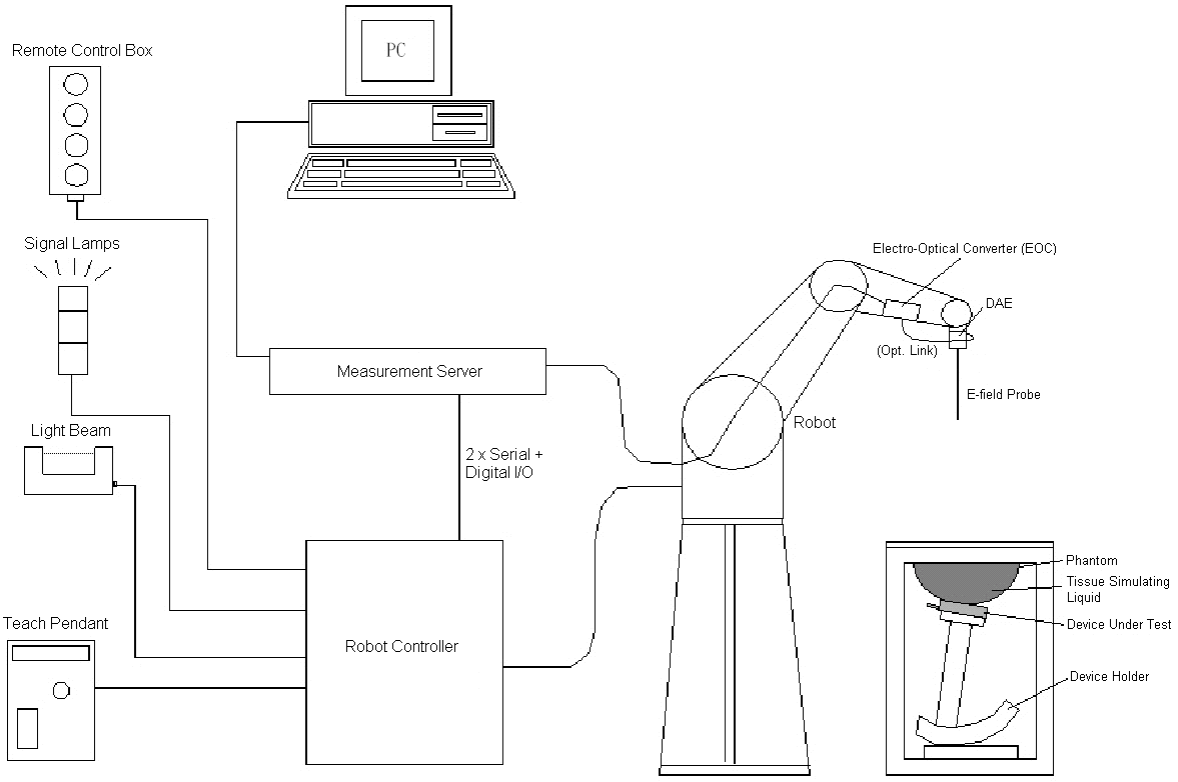


Fig-3.1 DASY System Setup

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 (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 DASY5

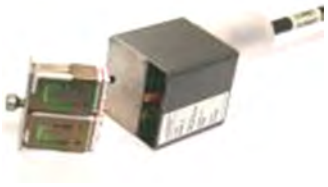
3.2.2 Probes

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 µW/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

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 µW/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	< 5µV (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

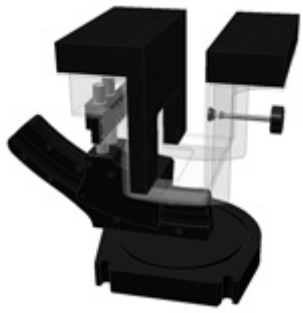
3.2.4 Phantoms

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	

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 l/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)	

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.

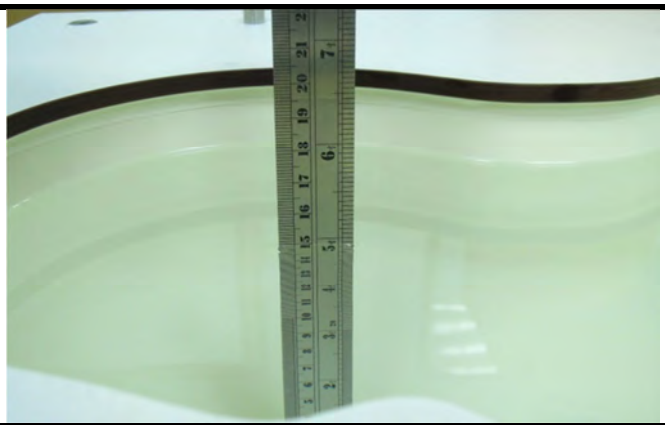
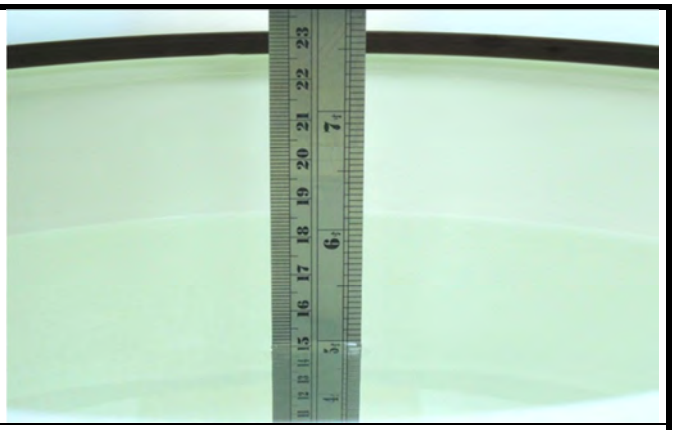
	

Photo of Liquid Height for Head Position	**Photo of Liquid Height for Body Position**

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 a dielectric assessment kit and a network analyzer.

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

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	-	28.0	-	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.

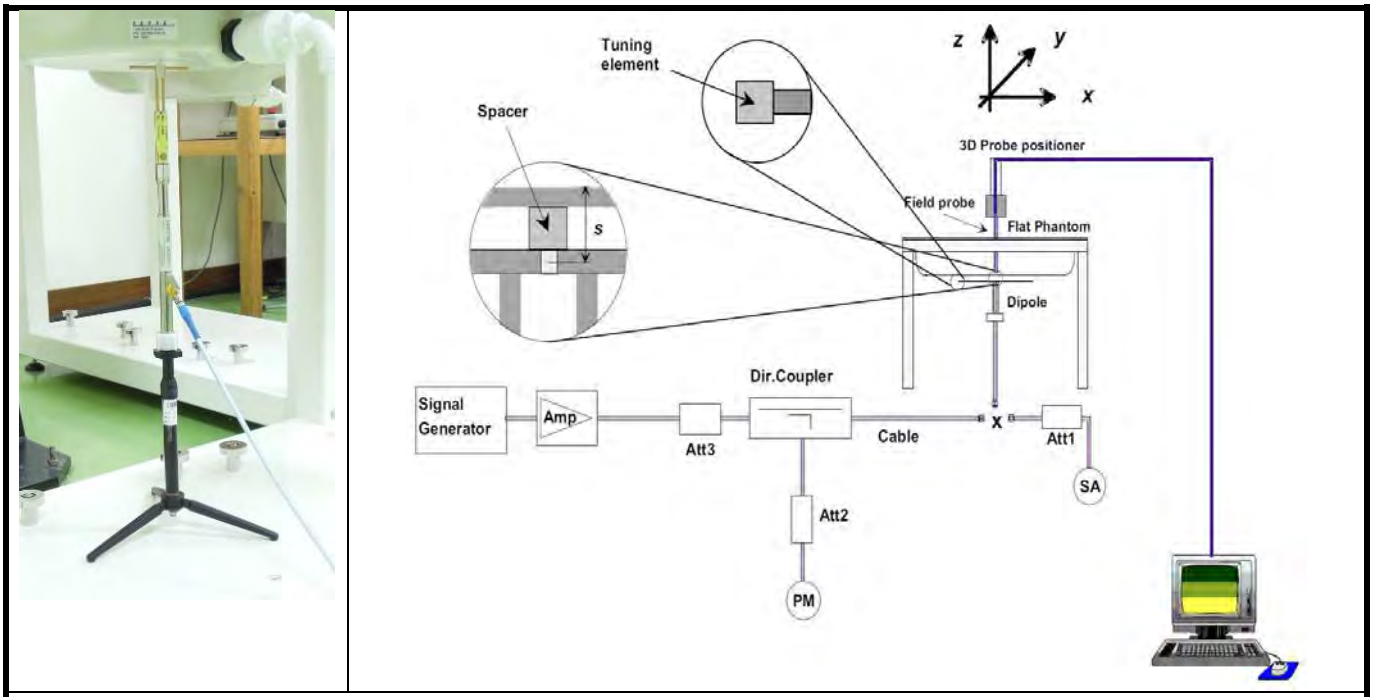


Fig-3.4 System Verification Setup

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 spectrum analyzer 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 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter.

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 (Δx, Δy)	<= 15 mm	<= 12 mm	<= 12 mm	<= 10 mm	<= 10 mm
Zoom Scan (Δx, Δy)	<= 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 Δx / Δy (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.

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 form 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

<Connections between EUT and System Simulator>

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.

<Considerations Related to GSM / GPRS / EDGE for Setup and Testing>

The maximum multi-slot capability supported by this device is as below.

1. This EUT is class B device
2. This EUT supports GPRS multi-slot class 12 (max. uplink: 4, max. downlink: 4, total timeslots: 5)
3. This EUT supports EDGE multi-slot class 12 (max. uplink: 4, max. downlink: 4, total timeslots: 5)

For GSM850 frequency band, the power control level is set to 5 for GSM mode and GPRS (GMSK: CS1), and set to 8 for EDGE (GMSK: MCS1, 8PSK: MCS9). For GSM1900 frequency band, the power control level is set to 0 for GSM mode and GPRS (GMSK: CS1), and set to 2 for EDGE (GMSK: MCS1, 8PSK: MCS9).

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

<Considerations Related to WCDMA for Setup and Testing>

WCDMA Handsets Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode.

WCDMA Handsets Body-worn SAR

SAR for body-worn configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple $DPDCH_n$ configurations supported by the handset with 12.2 kbps RMC as the primary mode.

Handsets with Release 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body-worn configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the “Release 5 HSDPA Data Devices”, for the highest reported SAR body-worn exposure configuration in 12.2 kbps RMC. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

Handsets with Release 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the "Release 6 HSPA Data Devices", for the highest reported body-worn exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn measurements is tested for next to the ear head exposure.

Release 5 HSDPA Data Devices

The 3G SAR test reduction procedure is applied to body SAR with 12.2 kbps RMC as the primary mode. Otherwise, body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH / HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c, β_d), and HS-DPCCH power offset parameters (Δ_{ACK}, Δ_{NACK}, Δ_{CQI}) are set according to values indicated in below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs} (1)	CM (dB)(2)	MPR
1	2 / 15	15 / 15	64	2 / 15	4 / 15	0.0	0
2	12 / 15 (3)	15 / 15 (3)	64	12 / 15 (3)	24 / 15	1.0	0
3	15 / 15	8 / 15	64	15 / 8	30 / 15	1.5	0.5
4	15 / 15	4 / 15	64	15 / 4	30 / 15	1.5	0.5

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 8 $\Leftrightarrow$ A_{hs} = β_{hs} / β_c = 30 / 15 $\Leftrightarrow$ β_{hs} = 30 / 15 * β_c.
Note 2: CM = 1 for β_c / β_d = 12 / 15, β_{hs} / β_c = 24 / 15.
Note 3: For subtest 2 the β_c / β_d ratio of 12 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 11 / 15 and β_d = 15 / 15.

Release 6 HSUPA Data Devices

The 3G SAR test reduction procedure is applied to body SAR with 12.2 kbps RMC as the primary mode. Otherwise, body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode. Otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing. Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in below.

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs} (1)	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (2) (dB)	MPR (dB)	AG (4) Index	E-TFCI
1	11 / 15 (3)	15 / 15 (3)	64	11 / 15 (3)	22 / 15	209 / 225	1039 / 225	4	1	1.0	0.0	20	75
2	6 / 15	15 / 15	64	6 / 15	12 / 15	12 / 15	94 / 75	4	1	3.0	2.0	12	67
3	15 / 15	9 / 15	64	15 / 9	30 / 15	30 / 15	β_{ed1}: 47/15 β_{ed2}: 47/15	4	2	2.0	1.0	15	92
4	2 / 15	15 / 15	64	2 / 15	4 / 15	2 / 15	56 / 75	4	1	3.0	2.0	17	71
5	15 / 15 (4)	15 / 15 (4)	64	15 / 15 (4)	30 / 15	24 / 15	134 / 15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 8 $\Leftrightarrow$ A_{hs} = β_{hs} / β_c = 30 / 15 $\Leftrightarrow$ β_{hs} = 30 / 15 * β_c.
Note 2: CM = 1 for β_c / β_d = 12 / 15, β_{hs} / β_c = 24 / 15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
Note 3: For subtest 1 the β_c / β_d ratio of 11 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 10 / 15 and β_d = 15 / 15.
Note 4: For subtest 5 the β_c / β_d ratio of 15 / 15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 14 / 15 and β_d = 15 / 15.
Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.
Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

<Considerations Related to LTE for Setup and Testing>

This device contains LTE transmitter which follows 3GPP standards, is category 3, supports both QPSK and 16QAM modulations, and supported LTE band and channel bandwidth is listed in below. The output power was tested per 3GPP TS 36.521-1 maximum transmit procedures for both QPSK and 16QAM modulation. The results please refer to section 4.6 of this report.

EUT Supported LTE Band and Channel Bandwidth						
LTE Band	BW 1.4 MHz	BW 3 MHz	BW 5 MHz	BW 10 MHz	BW 15 MHz	BW 20 MHz
2	V	V	V	V	V	V
4	V	V	V	V	V	V
5	V	V	V	V		
7			V	V	V	V
12	V	V	V	V		
13			V	V		
14			V	V		
25	V	V	V	V	V	V
26	V	V	V	V	V	
30			V	V		
38			V	V	V	V
40			V	V		
41			V	V	V	V
66	V	V	V	V	V	V

The LTE maximum power reduction (MPR) in accordance with 3GPP TS 36.101 is active all times during LTE operation. The allowed MPR for the maximum output power is specified in below.

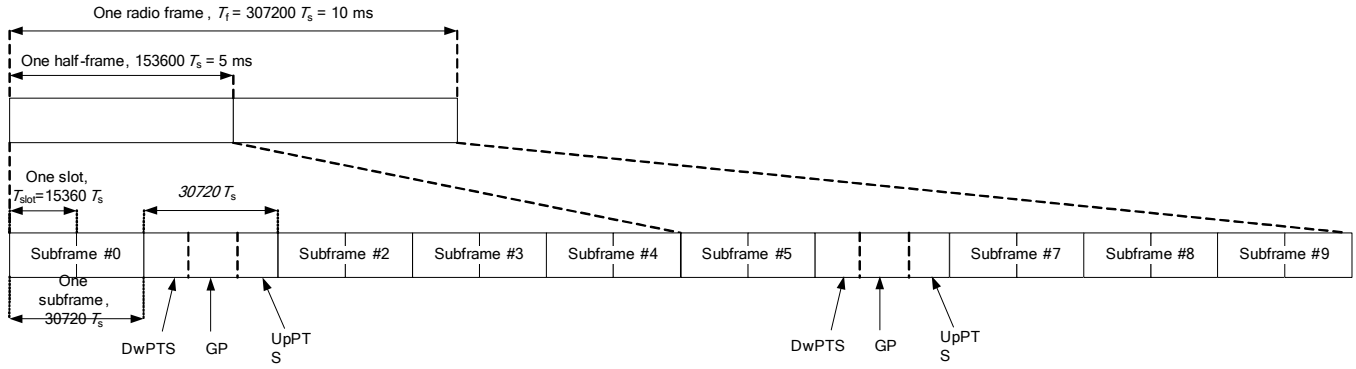
Modulation	Channel Bandwidth / RB Configurations						LTE MPR Setting (dB)
	BW 1.4 MHz	BW 3 MHz	BW 5 MHz	BW 10 MHz	BW 15 MHz	BW 20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	<= 5	<= 4	<= 8	<= 12	<= 16	<= 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2

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

In addition, the device is compliant with additional maximum power reduction (A-MPR) requirements defined in 3GPP TS 36.101 section 6.2.4 that was disabled for all FCC compliance testing.

During LTE SAR testing, the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB was set in base station simulator. When the EUT has registered and communicated to base station simulator, the simulator set to make EUT transmitting the maximum radiated power.

According to KDB 941225 D05, SAR testing for TDD-LTE device must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD-LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be referred to below.



3GPP TS 36.211 Figure 4.2-1: Frame Structure Type 2

Special Subframe Configuration	Normal Cyclic Prefix in Downlink			Extended Cyclic Prefix in Downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink
0	6592 • Ts	2192 • Ts	2560 • Ts	7680 • Ts	2192 • Ts	2560 • Ts
1	19760 • Ts			20480 • Ts		
2	21952 • Ts			23040 • Ts		
3	24144 • Ts			25600 • Ts		
4	26336 • Ts			7680 • Ts	4384 • Ts	5120 • Ts
5	6592 • Ts	4384 • Ts	5120 • Ts	20480 • Ts		
6	19760 • Ts			23040 • Ts		
7	21952 • Ts			12800 • Ts		
8	24144 • Ts			-	-	-
9	13168 • Ts			-	-	-

3GPP TS 36.211 Table 4.2-1: Configuration of Special Subframe

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-Point Periodicity	Subframe Number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

3GPP TS 36.211 Table 4.2-2: Uplink-Downlink Configurations

The variety of different TD-LTE uplink-downlink configurations allows a network operator to allocate the network's capacity between uplink and downlink traffic to meet the needs of the network. The uplink duty cycle of these seven configurations can readily be computed and shown in below.

UL-DL Configuration	0	1	2	3	4	5	6
Highest Duty-Cycle	63.33%	43.33%	23.33%	31.67%	21.67%	11.67%	53.33%

<Considerations Related to WLAN for Setup and Testing>

In general, various vendor specific external test software and chipset based internal test modes are typically used for SAR measurement. These chipset based test mode utilities are generally hardware and manufacturer dependent, and often include substantial flexibility to reconfigure or reprogram a device. A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement. The test frequencies established using test mode must correspond to the actual channel frequencies. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. In addition, a periodic transmission duty factor is required for current generation SAR systems to measure SAR correctly. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

According to KDB 248227 D01, this device has installed WLAN engineering testing software which can provide continuous transmitting RF signal. During WLAN SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

Initial Test Configuration

An initial test configuration is determined for OFDM transmission modes in 2.4 GHz and 5 GHz bands according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.

Subsequent Test Configuration

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. When the highest reported SAR for the initial test configuration according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

SAR Test Configuration and Channel Selection

When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is using largest channel bandwidth, lowest order modulation, lowest data rate, and lowest order 802.11 mode (i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n). After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following.

1) The channel closest to mid-band frequency is selected for SAR measurement.

2) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

Test Reduction for U-NII-1 (5.2 GHz) and U-NII-2A (5.3 GHz) Bands

For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following.

1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition).

2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration.

<Considerations Related to Bluetooth for Setup and Testing>

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

4.2 EUT Testing Position

According to KDB 648474 D04, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

4.2.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

1. Define two imaginary lines on the handset

(a) The vertical centerline passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.

(b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

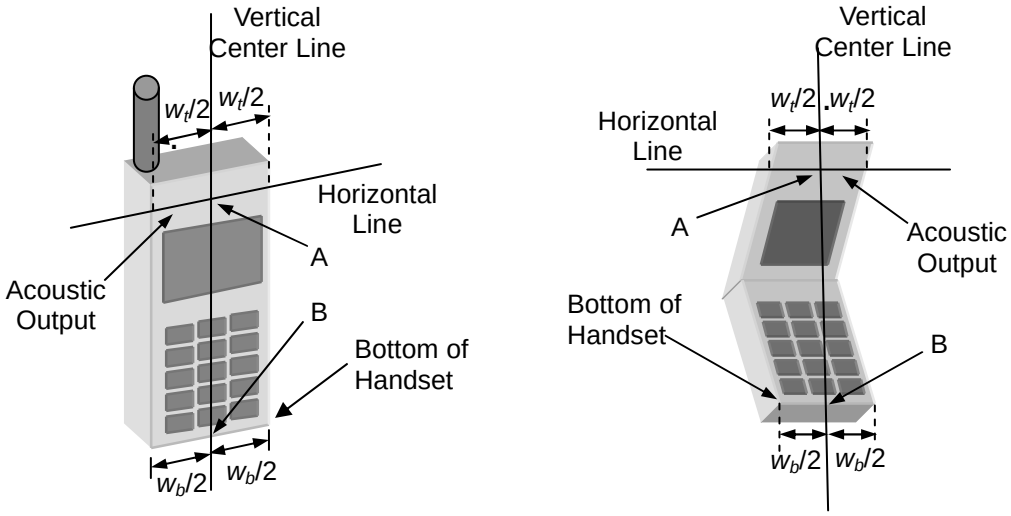


Fig-4.1 Illustration for Handset Vertical and Horizontal Reference Lines

2. Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig-4.2).

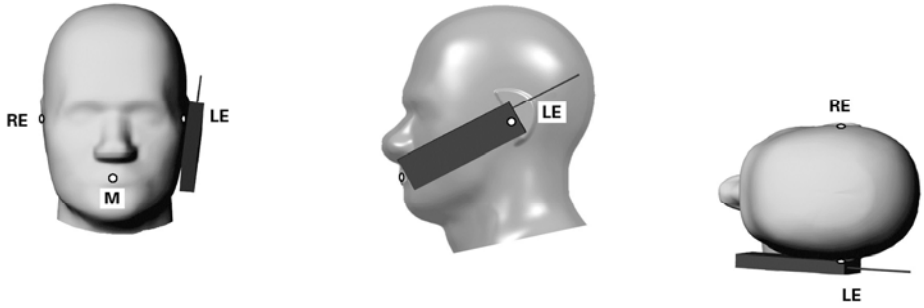


Fig-4.2 Illustration for Cheek Position

3. Tilted Position

(a) To position the device in the “cheek” position described above.

(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig-4.3).

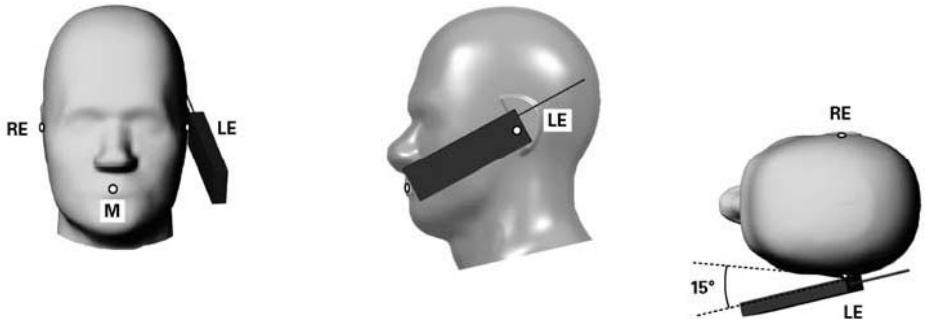


Fig-4.3 Illustration for Tilted Position

4.2.2 Body-worn Accessory Exposure Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 D01 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required.

A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance <= 5 mm to support compliance.

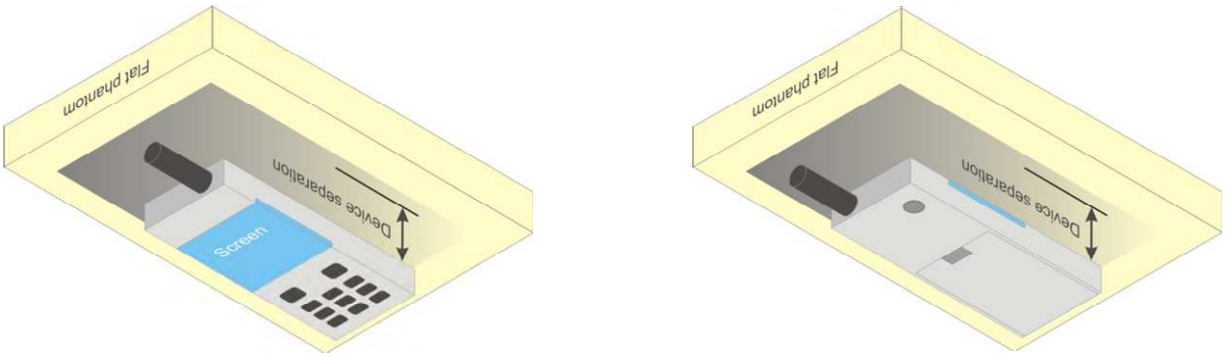
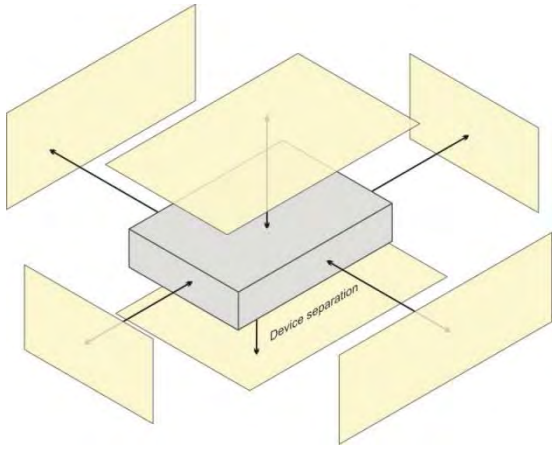


Fig-4.4 Illustration for Body Worn Position

4.2.3 Hotspot Mode Exposure Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225 D06. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



Based on the antenna location shown on appendix D of this report, the SAR testing required for hotspot mode is listed as below.

Antenna	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
WWAN Ant-0	V	V	V	V		V
WLAN / BT	V	V	V	V	V	

4.2.4 Extremity Exposure Conditions

For smart phones with a display diagonal dimension > 15 cm or an overall diagonal dimension > 16 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at <= 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g SAR > 1.2 W/kg. The normal tablet procedures in KDB 616217 are required when the over diagonal dimension of the device is > 20 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Extremity 10-g SAR is also not required for the front (top) surface of large form factor full size tablets. The more conservative tablet SAR results can be used to support the 10-g extremity SAR for phablet mode.
3. The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions.

4.2.5 Simultaneous Transmission Possibilities

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Head (Voice / VoIP)	Body-worn (Voice / VoIP)	Hotspot (Data)	Extremity (Data)
1	GSM850 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes	No
2	GSM1900 (Voice / Data) + WLAN (Data)	Yes	Yes	Yes	No
3	WCDMA II (Voice / Data) + WLAN (Data)	Yes	Yes	Yes	Yes
4	WCDMA IV (Voice / Data) + WLAN (Data)	Yes	Yes	Yes	Yes
5	WCDMA V (Voice / Data) + WLAN (Data)	Yes	Yes	Yes	No
6	LTE 2 (Data) + WLAN (Data)	Yes	Yes	Yes	No
7	LTE 4 (Data) + WLAN (Data)	Yes	Yes	Yes	Yes
8	LTE 5 (Data) + WLAN (Data)	Yes	Yes	Yes	No
9	LTE 7 (Data) + WLAN (Data)	Yes	Yes	Yes	Yes
10	LTE 12 (Data) + WLAN (Data)	Yes	Yes	Yes	No
11	LTE 13 (Data) + WLAN (Data)	Yes	Yes	Yes	No
12	LTE 14 (Data) + WLAN (Data)	Yes	Yes	Yes	No
13	LTE 25 (Data) + WLAN (Data)	Yes	Yes	Yes	Yes
14	LTE 26 (Data) + WLAN (Data)	Yes	Yes	Yes	No
15	LTE 30 (Data) + WLAN (Data)	Yes	Yes	Yes	No
16	LTE 38 (Data) + WLAN (Data)	Yes	Yes	Yes	No
17	LTE 40 (Data) + WLAN (Data)	Yes	Yes	Yes	No
18	LTE 41 (Data) + WLAN (Data)	Yes	Yes	Yes	No
19	LTE 66 (Data) + WLAN (Data)	Yes	Yes	Yes	Yes
20	GSM850 (Voice / Data) + BT (Data)	Yes	Yes	Yes	No
21	GSM1900 (Voice / Data) + BT (Data)	Yes	Yes	Yes	No
22	WCDMA II (Voice / Data) + BT (Data)	Yes	Yes	Yes	No
23	WCDMA IV (Voice / Data) + BT (Data)	Yes	Yes	Yes	No
24	WCDMA V (Voice / Data) + BT (Data)	Yes	Yes	Yes	No
25	LTE 2 (Data) + BT (Data)	Yes	Yes	Yes	No
26	LTE 4 (Data) + BT (Data)	Yes	Yes	Yes	No
27	LTE 5 (Data) + BT (Data)	Yes	Yes	Yes	No
28	LTE 7 (Data) + BT (Data)	Yes	Yes	Yes	No
29	LTE 12 (Data) + BT (Data)	Yes	Yes	Yes	No
30	LTE 13 (Data) + BT (Data)	Yes	Yes	Yes	No
31	LTE 14 (Data) + BT (Data)	Yes	Yes	Yes	No
32	LTE 25 (Data) + BT (Data)	Yes	Yes	Yes	No
33	LTE 26 (Data) + BT (Data)	Yes	Yes	Yes	No
34	LTE 30 (Data) + BT (Data)	Yes	Yes	Yes	No
35	LTE 38 (Data) + BT (Data)	Yes	Yes	Yes	No
36	LTE 40 (Data) + BT (Data)	Yes	Yes	Yes	No
37	LTE 41 (Data) + BT (Data)	Yes	Yes	Yes	No
38	LTE 66 (Data) + BT (Data)	Yes	Yes	Yes	No

Note :

1. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
2. The WLAN and Bluetooth cannot transmit simultaneously, so there is no co-location test requirement for WLAN and Bluetooth.

4.3 Tissue Verification

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

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (℃)	Measured Conductivity (σ)	Measured Permittivity (ε_r)	Target Conductivity (σ)	Target Permittivity (ε_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Nov. 21, 2017	H750	750	22.4	0.908	40.492	0.89	41.90	2.02	-3.36
Nov. 22, 2017	H850	835	22.2	0.920	43.008	0.90	41.50	2.22	3.63
Nov. 25, 2017	H1750	1750	22.3	1.413	41.340	1.37	40.10	3.14	3.09
Nov. 26, 2017	H1900	1900	22.5	1.384	39.804	1.40	40.00	-1.14	-0.49
Dec. 01, 2017	H2300	2300	21.9	1.635	38.827	1.67	39.50	-2.10	-1.70
Dec. 03, 2017	H2450	2450	21.8	1.782	40.200	1.80	39.20	-1.00	2.55
Dec. 04, 2017	H2600	2600	21.7	1.987	37.616	1.96	39.00	1.38	-3.55
Dec. 06, 2017	H5G	5250	22.2	4.744	36.854	4.71	35.90	0.72	2.66
Dec. 08, 2017	H5G	5600	22.1	5.034	36.508	5.07	35.50	-0.71	2.84
Dec. 08, 2017	H5G	5800	22.5	5.369	35.450	5.27	35.30	1.88	0.42
Nov. 23, 2017	B750	750	22.1	0.967	55.261	0.96	55.50	0.73	-0.43
Nov. 24, 2017	B850	835	22.4	0.992	54.672	0.97	55.20	2.27	-0.96
Nov. 27, 2017	B1750	1750	22.2	1.492	51.975	1.49	53.40	0.13	-2.67
Nov. 28, 2017	B1750	1750	22.2	1.439	53.690	1.49	53.40	-3.42	0.54
Nov. 29, 2017	B1900	1900	22.3	1.537	51.977	1.52	53.30	1.12	-2.48
Nov. 30, 2017	B1900	1900	22.3	1.577	53.610	1.52	53.30	3.75	0.58
Dec. 02, 2017	B2300	2300	22.3	1.799	51.373	1.81	52.90	-0.61	-2.89
Dec. 03, 2017	B2450	2450	21.8	2.024	53.364	1.95	52.70	3.79	1.26
Dec. 05, 2017	B2600	2600	22.4	2.096	50.743	2.16	52.50	-2.96	-3.35
Dec. 09, 2017	B5G	5250	22.4	5.262	51.004	5.36	48.90	-1.83	4.30
Dec. 10, 2017	B5G	5600	22.1	5.851	50.235	5.77	48.50	1.40	3.58
Dec. 11, 2017	B5G	5800	22.2	6.155	49.875	6.00	48.20	2.58	3.48

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within ±5% of the target values. Liquid temperature during the SAR testing must be within ±2 ℃.

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
Nov. 21, 2017	3873	Head	750	0.908	40.492	Pass	Pass	Pass	N/A	N/A	N/A
Nov. 22, 2017	3873	Head	835	0.920	43.008	Pass	Pass	Pass	GMSK	Pass	N/A
Nov. 25, 2017	3873	Head	1750	1.413	41.340	Pass	Pass	Pass	GMSK	Pass	N/A
Nov. 26, 2017	3873	Head	1900	1.384	39.804	Pass	Pass	Pass	GMSK	Pass	N/A
Dec. 01, 2017	3873	Head	2300	1.635	38.827	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 03, 2017	3873	Head	2450	1.782	40.200	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 04, 2017	3873	Head	2600	1.987	37.616	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 06, 2017	3873	Head	5250	4.744	36.854	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 08, 2017	3873	Head	5600	5.034	36.508	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 08, 2017	3873	Head	5800	5.369	35.450	Pass	Pass	Pass	OFDM	N/A	Pass
Nov. 23, 2017	3873	Body	750	0.967	55.261	Pass	Pass	Pass	N/A	N/A	N/A
Nov. 24, 2017	3873	Body	835	0.992	54.672	Pass	Pass	Pass	GMSK	Pass	N/A
Nov. 27, 2017	3873	Body	1750	1.492	51.975	Pass	Pass	Pass	GMSK	Pass	N/A
Nov. 28, 2017	3873	Body	1750	1.439	53.690	Pass	Pass	Pass	GMSK	Pass	N/A
Nov. 29, 2017	3873	Body	1900	1.537	51.977	Pass	Pass	Pass	GMSK	Pass	N/A
Nov. 30, 2017	3873	Body	1900	1.577	53.610	Pass	Pass	Pass	GMSK	Pass	N/A
Dec. 02, 2017	3873	Body	2300	1.799	51.373	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 03, 2017	3873	Body	2450	2.024	53.364	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 05, 2017	3873	Body	2600	2.096	50.743	Pass	Pass	Pass	N/A	N/A	N/A
Dec. 09, 2017	3873	Body	5250	5.262	51.004	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 10, 2017	3873	Body	5600	5.851	50.235	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 11, 2017	3873	Body	5800	6.155	49.875	Pass	Pass	Pass	OFDM	N/A	Pass

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
Nov. 21, 2017	Head	750	8.30	2.06	8.24	-0.72	1067	3873	1341
Nov. 22, 2017	Head	835	9.49	2.40	9.60	1.16	4d139	3873	1341
Nov. 25, 2017	Head	1750	37.30	9.55	38.20	2.41	1071	3873	1341
Nov. 26, 2017	Head	1900	39.80	9.95	39.80	0.00	5d159	3873	1341
Dec. 01, 2017	Head	2300	48.90	11.90	47.60	-2.66	1053	3873	1341
Dec. 03, 2017	Head	2450	52.60	12.40	49.60	-5.70	893	3873	1341
Dec. 04, 2017	Head	2600	57.40	14.30	57.20	-0.35	1110	3873	1341
Dec. 06, 2017	Head	5250	78.50	8.07	80.70	2.80	1133	3873	1341
Dec. 08, 2017	Head	5600	82.10	7.85	78.50	-4.38	1133	3873	1341
Dec. 08, 2017	Head	5800	80.10	7.68	76.80	-4.12	1133	3873	1341
Nov. 23, 2017	Body	750	8.77	2.11	8.44	-3.76	1067	3873	1341
Nov. 24, 2017	Body	835	9.71	2.36	9.44	-2.78	4d139	3873	1341
Nov. 27, 2017	Body	1750	38.30	9.78	39.12	2.14	1071	3873	1341
Nov. 28, 2017	Body	1750	38.30	9.65	38.60	0.78	1071	3873	1341
Nov. 29, 2017	Body	1900	40.30	10.60	42.40	5.21	5d159	3873	1341
Nov. 30, 2017	Body	1900	40.30	10.20	40.80	1.24	5d159	3873	1341
Dec. 02, 2017	Body	2300	49.30	12.40	49.60	0.61	1053	3873	1341
Dec. 03, 2017	Body	2450	51.60	12.90	51.60	0.00	893	3873	1341
Dec. 05, 2017	Body	2600	53.80	12.70	50.80	-5.58	1110	3873	1341
Dec. 09, 2017	Body	5250	76.60	7.66	76.60	0.00	1133	3873	1341
Dec. 10, 2017	Body	5600	78.80	7.87	78.70	-0.13	1133	3873	1341
Dec. 11, 2017	Body	5800	77.20	7.59	75.90	-1.68	1133	3873	1341

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.

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	GSM1900
GSM (GMSK, 1Tx-slot)	33.0	30.8
GPRS (GMSK, 1Tx-slot)	33.0	30.8
GPRS (GMSK, 2Tx-slot)	32.0	29.8
GPRS (GMSK, 3Tx-slot)	31.0	28.8
GPRS (GMSK, 4Tx-slot)	30.0	27.8
EDGE (8PSK, 1Tx-slot)	28.5	27.5
EDGE (8PSK, 2Tx-slot)	27.5	26.5
EDGE (8PSK, 3Tx-slot)	26.5	25.5
EDGE (8PSK, 4Tx-slot)	25.5	24.5

Mode	WCDMA Band II	WCDMA Band IV	WCDMA Band V
RMC 12.2K	25.0	24.5	25.0
HSDPA	23.0	23.0	23.0
HSUPA	23.5	23.5	23.5

Mode	LTE 2	LTE 4	LTE 5	LTE 7
QPSK / 16QAM	24.2	24.2	24.0	24.0

Mode	LTE 12	LTE 13	LTE 14	LTE 25
QPSK / 16QAM	24.0	24.0	24.0	24.2

Mode	LTE 26	LTE 30	LTE 38	LTE 40
QPSK / 16QAM	24.5	24.0	24.0	23.5

Mode	LTE 41	LTE 66
QPSK / 16QAM	24.5	24.2

Mode	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
802.11b	18.0	N/A	N/A	N/A	N/A
802.11g	16.5	N/A	N/A	N/A	N/A
802.11a	N/A	17.0	17.5	17.0	17.0
802.11n HT20	16.5	17.0	18.0	17.0	17.0
802.11n HT40	13.5	13.5	13.5	17.0	17.5
802.11ac VHT80	N/A	11.0	11.5	13.5	15.5

Mode	2.4G Bluetooth
GFSK	9.5
π/4-DQPSK	6.5
8DPSK	6.5
LE	-0.5

4.6.2 Measured Conducted Power Result

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

Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
Maximum Burst-Averaged Output Power						
GSM (GMSK, 1Tx-slot)	**32.96**	32.93	32.90	**29.94**	29.80	29.92
GPRS (GMSK, 1Tx-slot)	32.95	32.92	32.89	29.92	29.78	29.90
GPRS (GMSK, 2Tx-slot)	32.24	32.21	32.18	29.10	28.96	29.08
GPRS (GMSK, 3Tx-slot)	31.17	31.14	31.11	27.96	27.82	27.94
GPRS (GMSK, 4Tx-slot)	29.92	29.89	29.86	26.79	26.65	26.77
EDGE (8PSK, 1Tx-slot)	27.35	27.32	27.29	26.31	26.17	26.29
EDGE (8PSK, 2Tx-slot)	27.19	27.16	27.13	26.19	26.05	26.17
EDGE (8PSK, 3Tx-slot)	26.02	25.99	25.96	26.01	25.87	25.99
EDGE (8PSK, 4Tx-slot)	24.89	24.86	24.83	25.78	25.64	25.76
Maximum Frame-Averaged Output Power						
GSM (GMSK, 1Tx-slot)	23.96	23.93	23.90	20.94	20.80	20.92
GPRS (GMSK, 1Tx-slot)	23.95	23.92	23.89	20.92	20.78	20.90
GPRS (GMSK, 2Tx-slot)	26.24	26.21	26.18	23.10	22.96	23.08
GPRS (GMSK, 3Tx-slot)	26.91	26.88	26.85	23.70	23.56	23.68
GPRS (GMSK, 4Tx-slot)	**26.92**	26.89	26.86	**23.79**	23.65	23.77
EDGE (8PSK, 1Tx-slot)	18.35	18.32	18.29	17.31	17.17	17.29
EDGE (8PSK, 2Tx-slot)	21.19	21.16	21.13	20.19	20.05	20.17
EDGE (8PSK, 3Tx-slot)	21.76	21.73	21.70	21.75	21.61	21.73
EDGE (8PSK, 4Tx-slot)	21.89	21.86	21.83	22.78	22.64	22.76

Note:

1. SAR testing was performed on the maximum frame-averaged power mode.
2. 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:
   Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8)
3. The configuration of time-slot for GSM has transmitting signal in one time-slot during one frame (8 time-slots).

Band	WCDMA Band II			WCDMA Band IV			WCDMA Band V			3GPP MPR (dB)
Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233	
Frequency (MHz)	1852.4	1880.0	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6	
RMC 12.2K	24.31	24.29	**24.45**	24.13	24.08	**24.19**	**24.54**	24.45	24.51	-
HSDPA Subtest-1	22.82	22.80	22.96	22.77	22.72	22.83	22.86	22.77	22.83	0
HSDPA Subtest-2	22.81	22.79	22.95	22.74	22.69	22.80	22.82	22.73	22.79	0
HSDPA Subtest-3	22.15	22.13	22.29	22.22	22.17	22.28	22.33	22.24	22.30	0.5
HSDPA Subtest-4	22.13	22.11	22.27	22.19	22.14	22.25	22.34	22.25	22.31	0.5
HSUPA Subtest-1	23.25	23.23	23.39	22.88	22.83	22.94	23.41	23.32	23.38	0
HSUPA Subtest-2	21.07	21.05	21.21	20.93	20.88	20.99	21.33	21.24	21.30	2
HSUPA Subtest-3	22.11	22.09	22.25	21.95	21.90	22.01	22.35	22.26	22.32	1
HSUPA Subtest-4	21.06	21.04	21.20	20.98	20.93	21.04	21.25	21.16	21.22	2
HSUPA Subtest-5	23.21	23.19	23.35	22.78	22.73	22.84	23.25	23.16	23.22	0

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 18607 1850.7 MHz	Mid CH 18900 1880.0 MHz	High CH 19193 1909.3 MHz		Low CH 18607 1850.7 MHz	Mid CH 18900 1880.0 MHz	High CH 19193 1909.3 MHz		Low CH 18607 1850.7 MHz	Mid CH 18900 1880.0 MHz	High CH 19193 1909.3 MHz	
2 / 1.4M	1	0	23.48	23.59	23.68	0	22.62	22.73	22.82	1	21.50	21.61	21.70	2
	1	2	23.36	23.47	23.56	0	22.57	22.68	22.77	1	21.38	21.49	21.58	2
	1	5	23.25	23.36	23.45	0	22.50	22.61	22.70	1	21.30	21.41	21.50	2
	3	0	23.47	23.58	23.67	0	22.60	22.71	22.80	1	20.33	20.44	20.53	3
	3	1	23.35	23.46	23.55	0	22.55	22.66	22.75	1	20.28	20.39	20.48	3
	3	3	23.24	23.35	23.44	0	22.48	22.59	22.68	1	20.27	20.38	20.47	3
	6	0	22.50	22.61	22.70	1	21.53	21.64	21.73	2	20.30	20.41	20.50	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 18615 1851.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19185 1908.5 MHz		Low CH 18615 1851.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19185 1908.5 MHz		Low CH 18615 1851.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19185 1908.5 MHz	
2 / 3M	1	0	23.51	23.62	23.71	0	22.65	22.76	22.85	1	21.55	21.66	21.75	2
	1	7	23.39	23.50	23.59	0	22.60	22.71	22.80	1	21.43	21.54	21.63	2
	1	14	23.28	23.39	23.48	0	22.53	22.64	22.73	1	21.35	21.46	21.55	2
	8	0	22.64	22.75	22.84	1	21.65	21.76	21.85	1	20.38	20.49	20.58	3
	8	3	22.59	22.70	22.79	1	21.63	21.74	21.83	1	20.33	20.44	20.53	3
	8	7	22.56	22.67	22.76	1	21.61	21.72	21.81	1	20.32	20.43	20.52	3
	15	0	22.53	22.64	22.73	1	21.56	21.67	21.76	2	20.35	20.46	20.55	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 18625 1852.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19175 1907.5 MHz		Low CH 18625 1852.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19175 1907.5 MHz		Low CH 18625 1852.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19175 1907.5 MHz	
2 / 5M	1	0	23.54	23.65	23.74	0	22.68	22.79	22.88	1	21.60	21.71	21.80	2
	1	12	23.42	23.53	23.62	0	22.63	22.74	22.83	1	21.48	21.59	21.68	2
	1	24	23.31	23.42	23.51	0	22.56	22.67	22.76	1	21.40	21.51	21.60	2
	12	0	22.67	22.78	22.87	0	21.68	21.79	21.88	1	20.43	20.54	20.63	3
	12	6	22.62	22.73	22.82	0	21.66	21.77	21.86	1	20.38	20.49	20.58	3
	12	13	22.59	22.70	22.79	0	21.64	21.75	21.84	1	20.37	20.48	20.57	3
	25	0	22.56	22.67	22.76	1	21.59	21.70	21.79	2	20.40	20.51	20.60	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 18650 1855.0 MHz	Mid CH 18900 1880.0 MHz	High CH 19150 1905.0 MHz		Low CH 18650 1855.0 MHz	Mid CH 18900 1880.0 MHz	High CH 19150 1905.0 MHz		Low CH 18650 1855.0 MHz	Mid CH 18900 1880.0 MHz	High CH 19150 1905.0 MHz	
2 / 10M	1	0	23.56	23.67	23.76	0	22.70	22.81	22.90	1	21.65	21.76	21.85	2
	1	24	23.44	23.55	23.64	0	22.65	22.76	22.85	1	21.53	21.64	21.73	2
	1	49	23.33	23.44	23.53	0	22.58	22.69	22.78	1	21.45	21.56	21.65	2
	25	0	22.69	22.80	22.89	0	21.70	21.81	21.90	1	20.48	20.59	20.68	3
	25	12	22.64	22.75	22.84	0	21.68	21.79	21.88	1	20.43	20.54	20.63	3
	25	25	22.61	22.72	22.81	0	21.66	21.77	21.86	1	20.42	20.53	20.62	3
	50	0	22.58	22.69	22.78	1	21.61	21.72	21.81	2	20.45	20.56	20.65	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 18675 1857.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19125 1902.5 MHz		Low CH 18675 1857.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19125 1902.5 MHz		Low CH 18675 1857.5 MHz	Mid CH 18900 1880.0 MHz	High CH 19125 1902.5 MHz	
2 / 15M	1	0	23.59	23.70	23.79	0	22.73	22.84	22.93	1	21.70	21.81	21.90	2
	1	37	23.47	23.58	23.67	0	22.68	22.79	22.88	1	21.58	21.69	21.78	2
	1	74	23.36	23.47	23.56	0	22.61	22.72	22.81	1	21.50	21.61	21.70	2
	36	0	22.72	22.83	22.92	1	21.73	21.84	21.93	1	20.53	20.64	20.73	3
	36	19	22.67	22.78	22.87	1	21.71	21.82	21.91	1	20.48	20.59	20.68	3
	36	39	22.64	22.75	22.84	1	21.69	21.80	21.89	1	20.47	20.58	20.67	3
	75	0	22.61	22.72	22.81	1	21.64	21.75	21.84	2	20.50	20.61	20.70	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 18700 1860.0 MHz	Mid CH 18900 1880.0 MHz	High CH 19100 1900.0 MHz		Low CH 18700 1860.0 MHz	Mid CH 18900 1880.0 MHz	High CH 19100 1900.0 MHz		Low CH 18700 1860.0 MHz	Mid CH 18900 1880.0 MHz	High CH 19100 1900.0 MHz	
2 / 20M	1	0	23.64	23.75	**23.84**	0	22.78	22.89	22.98	1	21.75	21.86	21.95	2
	1	50	23.52	23.63	23.72	0	22.73	22.84	22.93	1	21.63	21.74	21.83	2
	1	99	23.41	23.52	23.61	0	22.66	22.77	22.86	1	21.55	21.66	21.75	2
	50	0	22.77	22.88	22.97	1	21.78	21.89	21.98	1	20.58	20.69	20.78	3
	50	25	22.72	22.83	22.92	1	21.76	21.87	21.96	1	20.53	20.64	20.73	3
	50	50	22.69	22.80	22.89	1	21.74	21.85	21.94	1	20.52	20.63	20.72	3
	100	0	22.66	22.77	22.86	1	21.69	21.80	21.89	2	20.55	20.66	20.75	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 19957	Mid CH 20175	High CH 19193		Low CH 19957	Mid CH 20175	High CH 19193		Low CH 19957	Mid CH 20175	High CH 19193	
			1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz	
4 / 1.4M	1	0	23.47	23.38	23.36	0	22.55	22.46	22.44	1	21.61	21.52	21.50	2
	1	2	23.33	23.24	23.22	0	22.51	22.42	22.40	1	21.57	21.48	21.46	2
	1	5	23.28	23.19	23.17	0	22.45	22.36	22.34	1	21.53	21.44	21.42	2
	3	0	23.45	23.36	23.34	0	22.54	22.45	22.43	1	20.48	20.39	20.37	3
	3	1	23.31	23.22	23.20	0	22.50	22.41	22.39	1	20.45	20.36	20.34	3
	3	3	23.26	23.17	23.15	0	22.44	22.35	22.33	1	20.41	20.32	20.30	3
	6	0	22.46	22.37	22.35	1	21.47	21.38	21.36	2	20.54	20.45	20.43	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 19965	Mid CH 20175	High CH 20385		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		1711.5 MHz	1732.5 MHz	1753.5 MHz	
4 / 3M	1	0	23.48	23.39	23.37	0	22.56	22.47	22.45	1	21.66	21.57	21.55	2
	1	7	23.34	23.25	23.23	0	22.52	22.43	22.41	1	21.62	21.53	21.51	2
	1	14	23.29	23.20	23.18	0	22.46	22.37	22.35	1	21.58	21.49	21.47	2
	8	0	22.58	22.49	22.47	0	21.53	21.44	21.42	1	20.53	20.44	20.42	3
	8	3	22.55	22.46	22.44	0	21.49	21.40	21.38	1	20.50	20.41	20.39	3
	8	7	22.52	22.43	22.41	0	21.46	21.37	21.35	1	20.46	20.37	20.35	3
	15	0	22.47	22.38	22.36	1	21.48	21.39	21.37	2	20.59	20.50	20.48	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 19975	Mid CH 20175	High CH 20375		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		1712.5 MHz	1732.5 MHz	1752.5 MHz	
4 / 5M	1	0	23.51	23.42	23.40	0	22.59	22.50	22.48	1	21.71	21.62	21.60	2
	1	12	23.37	23.28	23.26	0	22.55	22.46	22.44	1	21.67	21.58	21.56	2
	1	24	23.32	23.23	23.21	0	22.49	22.40	22.38	1	21.63	21.54	21.52	2
	12	0	22.61	22.52	22.50	0	21.56	21.47	21.45	1	20.58	20.49	20.47	3
	12	6	22.58	22.49	22.47	0	21.52	21.43	21.41	1	20.55	20.46	20.44	3
	12	13	22.55	22.46	22.44	0	21.49	21.40	21.38	1	20.51	20.42	20.40	3
	25	0	22.50	22.41	22.39	1	21.51	21.42	21.40	2	20.64	20.55	20.53	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20000	Mid CH 20175	High CH 20350		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		1715.0 MHz	1732.5 MHz	1750.0 MHz	
4 / 10M	1	0	23.55	23.46	23.44	0	22.63	22.54	22.52	1	21.76	21.67	21.65	2
	1	24	23.41	23.32	23.30	0	22.59	22.50	22.48	1	21.72	21.63	21.61	2
	1	49	23.36	23.27	23.25	0	22.53	22.44	22.42	1	21.68	21.59	21.57	2
	25	0	22.65	22.56	22.54	0	21.60	21.51	21.49	1	20.63	20.54	20.52	3
	25	12	22.62	22.53	22.51	0	21.56	21.47	21.45	1	20.60	20.51	20.49	3
	25	25	22.59	22.50	22.48	0	21.53	21.44	21.42	1	20.56	20.47	20.45	3
	50	0	22.54	22.45	22.43	1	21.55	21.46	21.44	2	20.69	20.60	20.58	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20025	Mid CH 20175	High CH 20325		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		1717.5 MHz	1732.5 MHz	1747.5 MHz	
4 / 15M	1	0	23.61	23.52	23.50	0	22.69	22.60	22.58	1	21.81	21.72	21.70	2
	1	37	23.47	23.38	23.36	0	22.65	22.56	22.54	1	21.77	21.68	21.66	2
	1	74	23.42	23.33	23.31	0	22.59	22.50	22.48	1	21.73	21.64	21.62	2
	36	0	22.71	22.62	22.60	0	21.66	21.57	21.55	1	20.68	20.59	20.57	3
	36	19	22.68	22.59	22.57	0	21.62	21.53	21.51	1	20.65	20.56	20.54	3
	36	39	22.65	22.56	22.54	0	21.59	21.50	21.48	1	20.61	20.52	20.50	3
	75	0	22.60	22.51	22.49	1	21.61	21.52	21.50	2	20.74	20.65	20.63	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20050	Mid CH 20175	High CH 20300		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		1720.0 MHz	1732.5 MHz	1745.0 MHz	
4 / 20M	1	0	**23.64**	23.55	23.53	0	22.72	22.63	22.61	1	21.86	21.77	21.75	2
	1	50	23.50	23.41	23.39	0	22.68	22.59	22.57	1	21.82	21.73	21.71	2
	1	99	23.45	23.36	23.34	0	22.62	22.53	22.51	1	21.78	21.69	21.67	2
	50	0	22.74	22.65	22.63	0	21.69	21.60	21.58	1	20.73	20.64	20.62	3
	50	25	22.71	22.62	22.60	0	21.65	21.56	21.54	1	20.70	20.61	20.59	3
	50	50	22.68	22.59	22.57	0	21.62	21.53	21.51	1	20.66	20.57	20.55	3
	100	0	22.63	22.54	22.52	1	21.64	21.55	21.53	2	20.79	20.70	20.68	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20407	Mid CH 20525	High CH 20643		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		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	22.83	22.81	22.86	0	21.92	21.90	21.95	1	20.88	20.86	20.91	2
	1	2	22.81	22.79	22.84	0	21.88	21.86	21.91	1	20.84	20.82	20.87	2
	1	5	22.65	22.63	22.68	0	21.86	21.84	21.89	1	20.81	20.79	20.84	2
	3	0	22.81	22.79	22.84	0	21.91	21.89	21.94	1	19.93	19.91	19.96	3
	3	1	22.79	22.77	22.82	0	21.87	21.85	21.90	1	19.88	19.86	19.91	3
	3	3	22.63	22.61	22.66	0	21.85	21.83	21.88	1	19.83	19.81	19.86	3
	6	0	21.90	21.88	21.93	1	20.91	20.89	20.94	2	19.91	19.89	19.94	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20415	Mid CH 20525	High CH 20635		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		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	22.87	22.85	22.90	0	21.96	21.94	21.99	1	20.93	20.91	20.96	2
	1	7	22.85	22.83	22.88	0	21.92	21.90	21.95	1	20.89	20.87	20.92	2
	1	14	22.69	22.67	22.72	0	21.90	21.88	21.93	1	20.86	20.84	20.89	2
	8	0	21.96	21.94	21.99	0	20.91	20.89	20.94	1	19.98	19.96	20.01	3
	8	3	21.94	21.92	21.97	0	20.87	20.85	20.90	1	19.93	19.91	19.96	3
	8	7	21.91	21.89	21.94	0	20.83	20.81	20.86	1	19.88	19.86	19.91	3
	15	0	21.94	21.92	21.97	1	20.95	20.93	20.98	2	19.96	19.94	19.99	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20425 826.5 MHz	Mid CH 20525 836.5 MHz	High CH 20625 846.5 MHz		Low CH 20425 826.5 MHz	Mid CH 20525 836.5 MHz	High CH 20625 846.5 MHz		Low CH 20425 826.5 MHz	Mid CH 20525 836.5 MHz	High CH 20625 846.5 MHz	
5 / 5M	1	0	22.93	22.91	22.96	0	22.02	22.00	22.05	1	20.98	20.96	21.01	2
	1	12	22.91	22.89	22.94	0	21.98	21.96	22.01	1	20.94	20.92	20.97	2
	1	24	22.75	22.73	22.78	0	21.96	21.94	21.99	1	20.91	20.89	20.94	2
	12	0	22.02	22.00	22.05	0	20.97	20.95	21.00	1	20.03	20.01	20.06	3
	12	6	22.00	21.98	22.03	0	20.93	20.91	20.96	1	19.98	19.96	20.01	3
	12	13	21.97	21.95	22.00	0	20.89	20.87	20.92	1	19.93	19.91	19.96	3
	25	0	22.00	21.98	22.03	1	21.01	20.99	21.04	2	20.01	19.99	20.04	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20450 829.0 MHz	Mid CH 20525 836.5 MHz	High CH 20600 844.0 MHz		Low CH 20450 829.0 MHz	Mid CH 20525 836.5 MHz	High CH 20600 844.0 MHz		Low CH 20450 829.0 MHz	Mid CH 20525 836.5 MHz	High CH 20600 844.0 MHz	
5 / 10M	1	0	22.96	22.94	**22.99**	0	22.05	22.03	22.08	1	21.03	21.01	21.06	2
	1	24	22.94	22.92	22.97	0	22.01	21.99	22.04	1	20.99	20.97	21.02	2
	1	49	22.78	22.76	22.81	0	21.99	21.97	22.02	1	20.96	20.94	20.99	2
	25	0	22.05	22.03	22.08	0	21.00	20.98	21.03	1	20.08	20.06	20.11	3
	25	12	22.03	22.01	22.06	0	20.96	20.94	20.99	1	20.03	20.01	20.06	3
	25	25	22.00	21.98	22.03	0	20.92	20.90	20.95	1	19.98	19.96	20.01	3
	50	0	22.03	22.01	22.06	1	21.04	21.02	21.07	2	20.06	20.04	20.09	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20775 2502.5 MHz	Mid CH 21100 2535.0 MHz	High CH 21425 2567.5 MHz		Low CH 20775 2502.5 MHz	Mid CH 21100 2535.0 MHz	High CH 21425 2567.5 MHz		Low CH 20775 2502.5 MHz	Mid CH 21100 2535.0 MHz	High CH 21425 2567.5 MHz	
7 / 5M	1	0	22.39	22.48	22.51	0	21.36	21.45	21.48	1	20.37	20.46	20.49	2
	1	12	22.33	22.42	22.45	0	21.32	21.41	21.44	1	20.34	20.43	20.46	2
	1	24	22.22	22.31	22.34	0	21.29	21.38	21.41	1	20.30	20.39	20.42	2
	12	0	21.51	21.60	21.63	0	20.50	20.59	20.62	1	19.42	19.51	19.54	3
	12	6	21.47	21.56	21.59	0	20.47	20.56	20.59	1	19.37	19.46	19.49	3
	12	13	21.42	21.51	21.54	0	20.42	20.51	20.54	1	19.34	19.43	19.46	3
	25	0	21.50	21.59	21.62	1	20.52	20.61	20.64	2	19.54	19.63	19.66	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20800 2505.0 MHz	Mid CH 21100 2535.0 MHz	High CH 21400 2565.0 MHz		Low CH 20800 2505.0 MHz	Mid CH 21100 2535.0 MHz	High CH 21400 2565.0 MHz		Low CH 20800 2505.0 MHz	Mid CH 21100 2535.0 MHz	High CH 21400 2565.0 MHz	
7 / 10M	1	0	22.43	22.52	22.55	0	21.40	21.49	21.52	1	20.42	20.51	20.54	2
	1	24	22.37	22.46	22.49	0	21.36	21.45	21.48	1	20.39	20.48	20.51	2
	1	49	22.26	22.35	22.38	0	21.33	21.42	21.45	1	20.35	20.44	20.47	2
	25	0	21.55	21.64	21.67	0	20.54	20.63	20.66	1	19.47	19.56	19.59	3
	25	12	21.51	21.60	21.63	0	20.51	20.60	20.63	1	19.42	19.51	19.54	3
	25	25	21.46	21.55	21.58	0	20.46	20.55	20.58	1	19.39	19.48	19.51	3
	50	0	21.54	21.63	21.66	1	20.56	20.65	20.68	2	19.59	19.68	19.71	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20825	Mid CH 21100	High CH 21375		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		2507.5 MHz	2535.0 MHz	2562.5 MHz	
7 / 15M	1	0	22.49	22.58	22.61	0	21.46	21.55	21.58	1	20.47	20.56	20.59	2
	1	37	22.43	22.52	22.55	0	21.42	21.51	21.54	1	20.44	20.53	20.56	2
	1	74	22.32	22.41	22.44	0	21.39	21.48	21.51	1	20.40	20.49	20.52	2
	36	0	21.61	21.70	21.73	0	20.60	20.69	20.72	1	19.52	19.61	19.64	3
	36	19	21.57	21.66	21.69	0	20.57	20.66	20.69	1	19.47	19.56	19.59	3
	36	39	21.52	21.61	21.64	0	20.52	20.61	20.64	1	19.44	19.53	19.56	3
	75	0	21.60	21.69	21.72	1	20.62	20.71	20.74	2	19.64	19.73	19.76	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20850	Mid CH 21100	High CH 21350		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		2510.0 MHz	2535.0 MHz	2560.0 MHz	
7 / 20M	1	0	22.52	22.61	**22.64**	0	21.49	21.58	21.61	1	20.52	20.61	20.64	2
	1	50	22.46	22.55	22.58	0	21.45	21.54	21.57	1	20.49	20.58	20.61	2
	1	99	22.35	22.44	22.47	0	21.42	21.51	21.54	1	20.45	20.54	20.57	2
	50	0	21.64	21.73	21.76	0	20.63	20.72	20.75	1	19.57	19.66	19.69	3
	50	25	21.60	21.69	21.72	0	20.60	20.69	20.72	1	19.52	19.61	19.64	3
	50	50	21.55	21.64	21.67	0	20.55	20.64	20.67	1	19.49	19.58	19.61	3
	100	0	21.63	21.72	21.75	1	20.65	20.74	20.77	2	19.69	19.78	19.81	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23017	Mid CH 23095	High CH 23173		Low CH 23017	Mid CH 23095	High CH 23173		Low CH 23017	Mid CH 23095	High CH 23173	
			699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz	
12 / 1.4M	1	0	23.31	23.35	23.45	0	22.43	22.47	22.57	1	21.49	21.53	21.63	2
	1	2	23.26	23.30	23.40	0	22.40	22.44	22.54	1	21.44	21.48	21.58	2
	1	5	23.21	23.25	23.35	0	22.35	22.39	22.49	1	21.40	21.44	21.54	2
	3	0	23.29	23.33	23.43	0	22.42	22.46	22.56	1	20.34	20.38	20.48	3
	3	1	23.24	23.28	23.38	0	22.39	22.43	22.53	1	20.31	20.35	20.45	3
	3	3	23.19	23.23	23.33	0	22.34	22.38	22.48	1	20.27	20.31	20.41	3
	6	0	22.40	22.44	22.54	1	21.38	21.42	21.52	2	20.33	20.37	20.47	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23025	Mid CH 23095	High CH 23165		Low CH 23025	Mid CH 23095	High CH 23165		Low CH 23025	Mid CH 23095	High CH 23165	
			700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz	
12 / 3M	1	0	23.35	23.39	23.49	0	22.47	22.51	22.61	1	21.54	21.58	21.68	2
	1	7	23.30	23.34	23.44	0	22.44	22.48	22.58	1	21.49	21.53	21.63	2
	1	14	23.25	23.29	23.39	0	22.39	22.43	22.53	1	21.45	21.49	21.59	2
	8	0	22.45	22.49	22.59	0	21.47	21.51	21.61	1	20.39	20.43	20.53	3
	8	3	22.40	22.44	22.54	0	21.44	21.48	21.58	1	20.36	20.40	20.50	3
	8	7	22.37	22.41	22.51	0	21.40	21.44	21.54	1	20.32	20.36	20.46	3
	15	0	22.44	22.48	22.58	1	21.42	21.46	21.56	2	20.38	20.42	20.52	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23035	Mid CH 23095	High CH 23155		Low CH 23035	Mid CH 23095	High CH 23155		Low CH 23035	Mid CH 23095	High CH 23155	
			701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz	
12 / 5M	1	0	23.41	23.45	23.55	0	22.53	22.57	22.67	1	21.59	21.63	21.73	2
	1	12	23.36	23.40	23.50	0	22.50	22.54	22.64	1	21.54	21.58	21.68	2
	1	24	23.31	23.35	23.45	0	22.45	22.49	22.59	1	21.50	21.54	21.64	2
	12	0	22.51	22.55	22.65	0	21.53	21.57	21.67	1	20.44	20.48	20.58	3
	12	6	22.46	22.50	22.60	0	21.50	21.54	21.64	1	20.41	20.45	20.55	3
	12	13	22.43	22.47	22.57	0	21.46	21.50	21.60	1	20.37	20.41	20.51	3
	25	0	22.50	22.54	22.64	1	21.48	21.52	21.62	2	20.43	20.47	20.57	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23060	Mid CH 23095	High CH 23130		Low CH 23060	Mid CH 23095	High CH 23130		Low CH 23060	Mid CH 23095	High CH 23130	
			704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz	
12 / 10M	1	0	23.44	23.48	**23.58**	0	22.56	22.60	22.70	1	21.64	21.68	21.78	2
	1	24	23.39	23.43	23.53	0	22.53	22.57	22.67	1	21.59	21.63	21.73	2
	1	49	23.34	23.38	23.48	0	22.48	22.52	22.62	1	21.55	21.59	21.69	2
	25	0	22.54	22.58	22.68	0	21.56	21.60	21.70	1	20.49	20.53	20.63	3
	25	12	22.49	22.53	22.63	0	21.53	21.57	21.67	1	20.46	20.50	20.60	3
	25	25	22.46	22.50	22.60	0	21.49	21.53	21.63	1	20.42	20.46	20.56	3
	50	0	22.53	22.57	22.67	1	21.51	21.55	21.65	2	20.48	20.52	20.62	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23205	Mid CH 23230	High CH 23255		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		779.5 MHz	782.0 MHz	784.5 MHz	
13 / 5M	1	0	23.08	23.21	23.12	0	22.23	22.36	22.27	1	21.14	21.27	21.18	2
	1	12	23.03	23.16	23.07	0	22.20	22.33	22.24	1	21.10	21.23	21.14	2
	1	24	22.99	23.12	23.03	0	22.16	22.29	22.20	1	21.07	21.20	21.11	2
	12	0	22.16	22.29	22.20	0	21.16	21.29	21.20	1	21.13	21.26	21.17	3
	12	6	22.11	22.24	22.15	0	21.12	21.25	21.16	1	21.09	21.22	21.13	3
	12	13	22.08	22.21	22.12	0	21.09	21.22	21.13	1	21.06	21.19	21.10	3
	25	0	22.15	22.28	22.19	1	21.12	21.25	21.16	2	20.12	20.25	20.16	3

LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)	64QAM	3GPP MPR (dB)
			Mid CH 23230		Mid CH 23230		Mid CH 23230	
			782.0 MHz		782.0 MHz		782.0 MHz	
13 / 10M	1	0	**23.19**	0	22.30	1	21.31	2
	1	24	23.14	0	22.25	1	21.27	2
	1	49	23.11	0	22.21	1	21.24	2
	25	0	22.29	0	21.23	1	20.31	3
	25	12	22.25	0	21.20	1	20.27	3
	25	25	22.21	0	21.16	1	20.23	3
	50	0	22.27	1	21.22	2	20.29	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23305	Mid CH 23330	High CH 23355		Low CH 23305	Mid CH 23330	High CH 23355		Low CH 23305	Mid CH 23330	High CH 23355	
			790.5 MHz	793.0 MHz	795.5 MHz		790.5 MHz	793.0 MHz	795.5 MHz		790.5 MHz	793.0 MHz	795.5 MHz	
14 / 5M	1	0	23.15	23.19	23.21	0	22.23	22.27	22.29	1	21.45	21.49	21.51	2
	1	12	23.12	23.16	23.18	0	22.19	22.23	22.25	1	21.38	21.42	21.44	2
	1	24	23.08	23.12	23.14	0	22.16	22.20	22.22	1	21.33	21.37	21.39	2
	12	0	22.28	22.32	22.34	0	21.22	21.26	21.28	1	21.44	21.48	21.50	3
	12	6	22.25	22.29	22.31	0	21.19	21.23	21.25	1	21.37	21.41	21.43	3
	12	13	22.21	22.25	22.27	0	21.15	21.19	21.21	1	21.32	21.36	21.38	3
	25	0	22.25	22.29	22.31	1	21.22	21.26	21.28	2	20.29	20.33	20.35	3

LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)	64QAM	3GPP MPR (dB)
			Mid CH 23330		Mid CH 23330		Mid CH 23330	
			793.0 MHz		793.0 MHz		793.0 MHz	
14 / 10M	1	0	**23.24**	0	22.32	1	21.53	2
	1	24	23.21	0	22.28	1	21.46	2
	1	49	23.17	0	22.25	1	21.41	2
	25	0	22.37	0	21.31	1	20.39	3
	25	12	22.34	0	21.28	1	20.35	3
	25	25	22.30	0	21.24	1	20.32	3
	50	0	22.34	1	21.31	2	20.37	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26047	Mid CH 26365	High CH 26683		Low CH 26047	Mid CH 26365	High CH 26683		Low CH 26047	Mid CH 26365	High CH 26683	
			1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz	
25 / 1.4M	1	0	23.60	23.52	23.63	0	22.82	22.74	22.85	1	21.45	21.37	21.48	2
	1	2	23.55	23.47	23.58	0	22.78	22.70	22.81	1	21.41	21.33	21.44	2
	1	5	23.52	23.44	23.55	0	22.74	22.66	22.77	1	21.37	21.29	21.40	2
	3	0	22.66	22.58	22.69	0	21.65	21.57	21.68	1	20.43	20.35	20.46	3
	3	1	22.62	22.54	22.65	0	21.61	21.53	21.64	1	20.38	20.30	20.41	3
	3	3	22.57	22.49	22.60	0	21.57	21.49	21.60	1	20.34	20.26	20.37	3
	6	0	22.67	22.59	22.70	1	21.62	21.54	21.65	2	20.38	20.30	20.41	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26055	Mid CH 26365	High CH 26675		Low CH 26055	Mid CH 26365	High CH 26675		Low CH 26055	Mid CH 26365	High CH 26675	
			1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz	
25 / 3M	1	0	23.63	23.55	23.66	0	22.85	22.77	22.88	1	21.48	21.40	21.51	2
	1	7	23.58	23.50	23.61	0	22.81	22.73	22.84	1	21.44	21.36	21.47	2
	1	14	23.55	23.47	23.58	0	22.77	22.69	22.80	1	21.40	21.32	21.43	2
	8	0	22.69	22.61	22.72	0	21.68	21.60	21.71	1	20.46	20.38	20.49	3
	8	3	22.65	22.57	22.68	0	21.64	21.56	21.67	1	20.41	20.33	20.44	3
	8	7	22.60	22.52	22.63	0	21.60	21.52	21.63	1	20.37	20.29	20.40	3
	15	0	22.70	22.62	22.73	1	21.65	21.57	21.68	2	20.41	20.33	20.44	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26065 1852.5 MHz	Mid CH 26365 1882.5 MHz	High CH 26665 1912.5 MHz		Low CH 26065 1852.5 MHz	Mid CH 26365 1882.5 MHz	High CH 26665 1912.5 MHz		Low CH 26065 1852.5 MHz	Mid CH 26365 1882.5 MHz	High CH 26665 1912.5 MHz	
25 / 5M	1	0	23.66	23.58	23.69	0	22.88	22.80	22.91	1	21.51	21.43	21.54	2
	1	12	23.61	23.53	23.64	0	22.84	22.76	22.87	1	21.47	21.39	21.50	2
	1	24	23.58	23.50	23.61	0	22.80	22.72	22.83	1	21.43	21.35	21.46	2
	12	0	22.72	22.64	22.75	0	21.71	21.63	21.74	1	20.49	20.41	20.52	3
	12	6	22.68	22.60	22.71	0	21.67	21.59	21.70	1	20.44	20.36	20.47	3
	12	13	22.63	22.55	22.66	0	21.63	21.55	21.66	1	20.40	20.32	20.43	3
	25	0	22.73	22.65	22.76	1	21.68	21.60	21.71	2	20.44	20.36	20.47	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26090 1855.0 MHz	Mid CH 26365 1882.5 MHz	High CH 26640 1910.0 MHz		Low CH 26090 1855.0 MHz	Mid CH 26365 1882.5 MHz	High CH 26640 1910.0 MHz		Low CH 26090 1855.0 MHz	Mid CH 26365 1882.5 MHz	High CH 26640 1910.0 MHz	
25 / 10M	1	0	23.68	23.60	23.71	0	22.90	22.82	22.93	1	21.56	21.48	21.59	2
	1	24	23.63	23.55	23.66	0	22.86	22.78	22.89	1	21.52	21.44	21.55	2
	1	49	23.60	23.52	23.63	0	22.82	22.74	22.85	1	21.48	21.40	21.51	2
	25	0	22.74	22.66	22.77	0	21.73	21.65	21.76	1	20.54	20.46	20.57	3
	25	12	22.70	22.62	22.73	0	21.69	21.61	21.72	1	20.49	20.41	20.52	3
	25	25	22.65	22.57	22.68	0	21.65	21.57	21.68	1	20.45	20.37	20.48	3
	50	0	22.75	22.67	22.78	1	21.70	21.62	21.73	2	20.49	20.41	20.52	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26115 1857.5 MHz	Mid CH 26365 1882.5 MHz	High CH 26615 1907.5 MHz		Low CH 26115 1857.5 MHz	Mid CH 26365 1882.5 MHz	High CH 26615 1907.5 MHz		Low CH 26115 1857.5 MHz	Mid CH 26365 1882.5 MHz	High CH 26615 1907.5 MHz	
25 / 15M	1	0	23.70	23.62	23.73	0	22.92	22.84	22.95	1	21.61	21.53	21.64	2
	1	37	23.65	23.57	23.68	0	22.88	22.80	22.91	1	21.57	21.49	21.60	2
	1	74	23.62	23.54	23.65	0	22.84	22.76	22.87	1	21.53	21.45	21.56	2
	36	0	22.76	22.68	22.79	0	21.75	21.67	21.78	1	20.59	20.51	20.62	3
	36	19	22.72	22.64	22.75	0	21.71	21.63	21.74	1	20.54	20.46	20.57	3
	36	39	22.67	22.59	22.70	0	21.67	21.59	21.70	1	20.50	20.42	20.53	3
	75	0	22.77	22.69	22.80	1	21.72	21.64	21.75	2	20.54	20.46	20.57	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26140 1860.0 MHz	Mid CH 26365 1882.5 MHz	High CH 26590 1905.0 MHz		Low CH 26140 1860.0 MHz	Mid CH 26365 1882.5 MHz	High CH 26590 1905.0 MHz		Low CH 26140 1860.0 MHz	Mid CH 26365 1882.5 MHz	High CH 26590 1905.0 MHz	
25 / 20M	1	0	23.73	23.65	**23.76**	0	22.95	22.87	22.98	1	21.66	21.58	21.69	2
	1	50	23.68	23.60	23.71	0	22.91	22.83	22.94	1	21.62	21.54	21.65	2
	1	99	23.65	23.57	23.68	0	22.87	22.79	22.90	1	21.58	21.50	21.61	2
	50	0	22.79	22.71	22.82	0	21.78	21.70	21.81	1	20.64	20.56	20.67	3
	50	25	22.75	22.67	22.78	0	21.74	21.66	21.77	1	20.59	20.51	20.62	3
	50	50	22.70	22.62	22.73	0	21.70	21.62	21.73	1	20.55	20.47	20.58	3
	100	0	22.80	22.72	22.83	1	21.75	21.67	21.78	2	20.59	20.51	20.62	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26697 814.7 MHz	Mid CH 26865 831.5 MHz	High CH 27033 848.3 MHz		Low CH 26697 814.7 MHz	Mid CH 26865 831.5 MHz	High CH 27033 848.3 MHz		Low CH 26697 814.7 MHz	Mid CH 26865 831.5 MHz	High CH 27033 848.3 MHz	
26 / 1.4M	1	0	23.84	23.86	23.82	0	22.80	22.82	22.78	1	21.73	21.75	21.71	2
	1	2	23.79	23.81	23.77	0	22.75	22.77	22.73	1	21.68	21.70	21.66	2
	1	5	23.75	23.77	23.73	0	22.71	22.73	22.69	1	21.58	21.60	21.56	2
	3	0	23.82	23.84	23.80	0	22.79	22.81	22.77	1	21.72	21.74	21.70	3
	3	1	23.77	23.79	23.75	0	22.74	22.76	22.72	1	21.67	21.69	21.65	3
	3	3	23.73	23.75	23.71	0	22.70	22.72	22.68	1	21.57	21.59	21.55	3
	6	0	22.78	22.80	22.76	1	21.85	21.87	21.83	2	20.92	20.94	20.90	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26705 815.5 MHz	Mid CH 26865 831.5 MHz	High CH 27025 847.5 MHz		Low CH 26705 815.5 MHz	Mid CH 26865 831.5 MHz	High CH 27025 847.5 MHz		Low CH 26705 815.5 MHz	Mid CH 26865 831.5 MHz	High CH 27025 847.5 MHz	
26 / 3M	1	0	23.88	23.90	23.86	0	22.84	22.86	22.82	1	21.77	21.79	21.75	2
	1	7	23.83	23.85	23.81	0	22.79	22.81	22.77	1	21.72	21.74	21.70	2
	1	14	23.79	23.81	23.77	0	22.75	22.77	22.73	1	21.62	21.64	21.60	2
	8	0	22.87	22.89	22.85	0	21.86	21.88	21.84	1	21.76	21.78	21.74	3
	8	3	22.80	22.82	22.78	0	21.82	21.84	21.80	1	21.71	21.73	21.69	3
	8	7	22.74	22.76	22.72	0	21.79	21.81	21.77	1	21.61	21.63	21.59	3
	15	0	22.82	22.84	22.80	1	21.89	21.91	21.87	2	20.96	20.98	20.94	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26715 816.5 MHz	Mid CH 26865 831.5 MHz	High CH 27015 846.5 MHz		Low CH 26715 816.5 MHz	Mid CH 26865 831.5 MHz	High CH 27015 846.5 MHz		Low CH 26715 816.5 MHz	Mid CH 26865 831.5 MHz	High CH 27015 846.5 MHz	
26 / 5M	1	0	23.91	23.93	23.89	0	22.87	22.89	22.85	1	21.81	21.83	21.79	2
	1	12	23.86	23.88	23.84	0	22.82	22.84	22.80	1	21.76	21.78	21.74	2
	1	24	23.82	23.84	23.80	0	22.78	22.80	22.76	1	21.66	21.68	21.64	2
	12	0	22.90	22.92	22.88	0	21.89	21.91	21.87	1	21.80	21.82	21.78	3
	12	6	22.83	22.85	22.81	0	21.85	21.87	21.83	1	21.75	21.77	21.73	3
	12	13	22.77	22.79	22.75	0	21.82	21.84	21.80	1	21.65	21.67	21.63	3
	25	0	22.85	22.87	22.83	1	21.92	21.94	21.90	2	21.00	21.02	20.98	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26740 819.0 MHz	Mid CH 26865 831.5 MHz	High CH 26990 844.0 MHz		Low CH 26740 819.0 MHz	Mid CH 26865 831.5 MHz	High CH 26990 844.0 MHz		Low CH 26740 819.0 MHz	Mid CH 26865 831.5 MHz	High CH 26990 844.0 MHz	
26 / 10M	1	0	23.94	**23.96**	23.92	0	22.90	22.92	22.88	1	21.85	21.87	21.83	2
	1	24	23.89	23.91	23.87	0	22.85	22.87	22.83	1	21.80	21.82	21.78	2
	1	49	23.85	23.87	23.83	0	22.81	22.83	22.79	1	21.70	21.72	21.68	2
	25	0	22.93	22.95	22.91	0	21.92	21.94	21.90	1	21.84	21.86	21.82	3
	25	12	22.86	22.88	22.84	0	21.88	21.90	21.86	1	21.79	21.81	21.77	3
	25	25	22.80	22.82	22.78	0	21.85	21.87	21.83	1	21.69	21.71	21.67	3
	50	0	22.88	22.90	22.86	1	21.95	21.97	21.93	2	21.04	21.06	21.02	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26765	Mid CH 26865	High CH 26965		Low CH 26765	Mid CH 26865	High CH 26965		Low CH 26765	Mid CH 26865	High CH 26965	
			821.5 MHz	831.5 MHz	841.5 MHz		821.5 MHz	831.5 MHz	841.5 MHz		821.5 MHz	831.5 MHz	841.5 MHz	
26 / 15M	1	0	23.97	23.99	23.95	0	22.93	22.95	22.91	1	21.89	21.91	21.91	2
	1	37	23.92	23.94	23.90	0	22.88	22.90	22.86	1	21.84	21.86	21.81	2
	1	74	23.88	23.90	23.86	0	22.84	22.86	22.82	1	21.74	21.76	21.18	2
	36	0	22.96	22.98	22.94	0	21.95	21.97	21.93	1	21.11	21.13	21.16	3
	36	19	22.89	22.91	22.87	0	21.91	21.93	21.89	1	21.09	21.11	21.12	3
	36	39	22.83	22.85	22.81	0	21.88	21.90	21.86	1	21.05	21.07	21.15	3
	75	0	22.91	22.93	22.89	1	21.98	22.00	21.96	2	21.08	21.10	21.18	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 27685	Mid CH 27710	High CH 27735		Low CH 27685	Mid CH 27710	High CH 27735		Low CH 27685	Mid CH 27710	High CH 27735	
			2307.5 MHz	2310.0 MHz	2312.5 MHz		2307.5 MHz	2310.0 MHz	2312.5 MHz		2307.5 MHz	2310.0 MHz	2312.5 MHz	
30 / 5M	1	0	23.25	23.17	23.15	0	22.52	22.44	22.42	1	21.65	21.57	21.55	2
	1	12	23.21	23.13	23.11	0	22.47	22.39	22.37	1	21.60	21.52	21.50	2
	1	24	23.17	23.09	23.07	0	22.44	22.36	22.34	1	21.57	21.49	21.47	2
	12	0	22.44	22.36	22.34	0	21.31	21.23	21.21	1	21.64	21.56	21.54	3
	12	6	22.40	22.32	22.30	0	21.27	21.19	21.17	1	21.59	21.51	21.49	3
	12	13	22.37	22.29	22.27	0	21.24	21.16	21.14	1	21.56	21.48	21.46	3
	25	0	22.34	22.26	22.24	1	21.35	21.27	21.25	2	20.68	20.60	20.58	3

LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)	64QAM	3GPP MPR (dB)
			Mid CH 27710		Mid CH 27710		Mid CH 27710	
			2310.0 MHz		2310.0 MHz		2310.0 MHz	
30 / 10M	1	0	**23.67**	0	22.83	1	21.61	2
	1	24	23.56	0	22.79	1	21.56	2
	1	49	23.46	0	22.76	1	21.53	2
	25	0	22.69	0	21.65	1	20.69	3
	25	12	22.65	0	21.63	1	20.65	3
	25	25	22.61	0	21.60	1	20.61	3
	50	0	22.70	1	21.65	2	20.64	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 37775 2572.5 MHz	Mid CH 38000 2595.0 MHz	High CH 38225 2617.5 MHz		Low CH 37775 2572.5 MHz	Mid CH 38000 2595.0 MHz	High CH 38225 2617.5 MHz		Low CH 37775 2572.5 MHz	Mid CH 38000 2595.0 MHz	High CH 38225 2617.5 MHz	
38 / 5M	1	0	22.62	22.79	22.83	0	21.67	21.84	21.88	1	20.56	20.73	20.77	2
	1	12	22.55	22.72	22.76	0	21.62	21.79	21.83	1	20.51	20.68	20.72	2
	1	24	22.50	22.67	22.71	0	21.55	21.72	21.76	1	20.46	20.63	20.67	2
	12	0	21.72	21.89	21.93	0	20.77	20.94	20.98	1	19.75	19.92	19.96	3
	12	6	21.70	21.87	21.91	0	20.82	20.99	21.03	1	19.73	19.90	19.94	3
	12	13	21.67	21.84	21.88	0	20.74	20.91	20.95	1	19.69	19.86	19.90	3
	25	0	21.72	21.89	21.93	1	20.44	20.61	20.65	2	19.73	19.90	19.94	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 37800 2575.0 MHz	Mid CH 38000 2595.0 MHz	High CH 38200 2615.0 MHz		Low CH 37800 2575.0 MHz	Mid CH 38000 2595.0 MHz	High CH 38200 2615.0 MHz		Low CH 37800 2575.0 MHz	Mid CH 38000 2595.0 MHz	High CH 38200 2615.0 MHz	
38 / 10M	1	0	22.66	22.83	22.87	0	21.71	21.88	21.92	1	20.61	20.78	20.82	2
	1	24	22.59	22.76	22.80	0	21.66	21.83	21.87	1	20.56	20.73	20.77	2
	1	49	22.54	22.71	22.75	0	21.59	21.76	21.80	1	20.51	20.68	20.72	2
	25	0	21.76	21.93	21.97	0	20.81	20.98	21.02	1	19.80	19.97	20.01	3
	25	12	21.74	21.91	21.95	0	20.86	21.03	21.07	1	19.78	19.95	19.99	3
	25	25	21.71	21.88	21.92	0	20.78	20.95	20.99	1	19.74	19.91	19.95	3
	50	0	21.76	21.93	21.97	1	20.48	20.65	20.69	2	19.78	19.95	19.99	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 37825 2577.5 MHz	Mid CH 38000 2595.0 MHz	High CH 38175 2612.5 MHz		Low CH 37825 2577.5 MHz	Mid CH 38000 2595.0 MHz	High CH 38175 2612.5 MHz		Low CH 37825 2577.5 MHz	Mid CH 38000 2595.0 MHz	High CH 38175 2612.5 MHz	
38 / 15M	1	0	22.69	22.86	22.90	0	21.74	21.91	21.95	1	20.66	20.83	20.87	2
	1	37	22.62	22.79	22.83	0	21.69	21.86	21.90	1	20.61	20.78	20.82	2
	1	74	22.57	22.74	22.78	0	21.62	21.79	21.83	1	20.56	20.73	20.77	2
	36	0	21.79	21.96	22.00	0	20.84	21.01	21.05	1	19.85	20.02	20.06	3
	36	19	21.77	21.94	21.98	0	20.89	21.06	21.10	1	19.83	20.00	20.04	3
	36	39	21.74	21.91	21.95	0	20.81	20.98	21.02	1	19.79	19.96	20.00	3
	75	0	21.79	21.96	22.00	1	20.51	20.68	20.72	2	19.83	20.00	20.04	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 37850 2580.0 MHz	Mid CH 38000 2595.0 MHz	High CH 38150 2610.0 MHz		Low CH 37850 2580.0 MHz	Mid CH 38000 2595.0 MHz	High CH 38150 2610.0 MHz		Low CH 37850 2580.0 MHz	Mid CH 38000 2595.0 MHz	High CH 38150 2610.0 MHz	
38 / 20M	1	0	22.76	22.93	**22.97**	0	21.81	21.98	22.02	1	20.71	20.88	20.92	2
	1	50	22.69	22.86	22.90	0	21.76	21.93	21.97	1	20.66	20.83	20.87	2
	1	99	22.64	22.81	22.85	0	21.69	21.86	21.90	1	20.61	20.78	20.82	2
	50	0	21.86	22.03	22.07	0	20.91	21.08	21.12	1	19.90	20.07	20.11	3
	50	25	21.84	22.01	22.05	0	20.96	21.13	21.17	1	19.88	20.05	20.09	3
	50	50	21.81	21.98	22.02	0	20.88	21.05	21.09	1	19.84	20.01	20.05	3
	100	0	21.86	22.03	22.07	1	20.58	20.75	20.79	2	19.88	20.05	20.09	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 38725	Mid CH 38750	High CH 38775		Low CH 38725	Mid CH 38750	High CH 38775		Low CH 38725	Mid CH 38750	High CH 38775	
			2307.5 MHz	2310.0 MHz	2312.5 MHz		2307.5 MHz	2310.0 MHz	2312.5 MHz		2307.5 MHz	2310.0 MHz	2312.5 MHz	
40 / 5M	1	0	23.02	23.08	23.13	0	22.04	22.10	22.15	1	21.12	21.18	21.23	2
	1	12	23.00	23.06	23.11	0	22.01	22.07	22.12	1	21.06	21.12	21.17	2
	1	24	22.99	23.05	23.10	0	21.96	22.02	22.07	1	21.03	21.09	21.14	2
	12	0	22.18	22.24	22.29	0	21.22	21.28	21.33	1	20.23	20.29	20.34	3
	12	6	22.16	22.22	22.27	0	21.15	21.21	21.26	1	20.20	20.26	20.31	3
	12	13	22.14	22.20	22.25	0	21.10	21.16	21.21	1	20.12	20.18	20.23	3
	25	0	22.14	22.20	22.25	1	21.18	21.24	21.29	2	20.18	20.24	20.29	3

LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)	64QAM	3GPP MPR (dB)
			Mid CH 38750		Mid CH 38750		Mid CH 38750	
			2310.0 MHz		2310.0 MHz		2310.0 MHz	
40 / 10M	1	0	23.12	0	22.09	1	21.10	2
	1	24	23.09	0	22.06	1	21.07	2
	1	49	23.05	0	21.94	1	20.97	2
	25	0	22.25	0	21.21	1	20.30	3
	25	12	22.21	0	21.17	1	20.27	3
	25	25	22.17	0	21.16	1	20.24	3
	50	0	22.20	1	21.12	2	20.20	3

LTE Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565		L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565	
			2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz		2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz	
41 / 5M	1	0	23.51	23.52	23.83	23.77	23.93	0	22.40	22.41	22.72	22.66	22.82	1
	1	12	23.46	23.47	23.78	23.72	23.88	0	22.39	22.40	22.71	22.65	22.81	1
	1	24	23.41	23.42	23.73	23.67	23.83	0	22.35	22.36	22.67	22.61	22.77	1
	12	0	22.78	22.79	23.10	23.04	23.20	1	21.78	21.79	22.10	22.04	22.20	2
	12	6	22.75	22.76	23.07	23.01	23.17	1	21.75	21.76	22.07	22.01	22.17	2
	12	13	22.72	22.73	23.04	22.98	23.14	1	21.70	21.71	22.02	21.96	22.12	2
	25	0	22.75	22.76	23.07	23.01	23.17	1	21.72	21.73	22.04	21.98	22.14	2

LTE Band / BW	RB Size	RB Offset	64QAM					3GPP MPR (dB)
			L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565	
			2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz	
41 / 5M	1	0	21.35	21.36	21.67	21.61	21.77	2
	1	12	21.32	21.33	21.64	21.58	21.74	2
	1	24	21.29	21.30	21.61	21.55	21.71	2
	12	0	20.39	20.40	20.71	20.65	20.81	3
	12	6	20.35	20.36	20.67	20.61	20.77	3
	12	13	20.29	20.30	20.61	20.55	20.71	3
	25	0	20.28	20.29	20.60	20.54	20.70	3

LTE Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39700 2501.0 MHz	M-CH 40160 2547.0 MHz	M-CH 40620 2593.0 MHz	M-CH 41080 2639.0 MHz	H-CH 41540 2685.0 MHz		L-CH 39700 2501.0 MHz	M-CH 40160 2547.0 MHz	M-CH 40620 2593.0 MHz	M-CH 41080 2639.0 MHz	H-CH 41540 2685.0 MHz	
41 / 10M	1	0	23.54	23.55	23.86	23.80	23.96	0	22.43	22.44	22.75	22.69	22.85	1
	1	24	23.49	23.50	23.81	23.75	23.91	0	22.42	22.43	22.74	22.68	22.84	1
	1	49	23.44	23.45	23.76	23.70	23.86	0	22.38	22.39	22.70	22.64	22.80	1
	25	0	22.81	22.82	23.13	23.07	23.23	1	21.81	21.82	22.13	22.07	22.23	2
	25	12	22.78	22.79	23.10	23.04	23.20	1	21.78	21.79	22.10	22.04	22.20	2
	25	25	22.75	22.76	23.07	23.01	23.17	1	21.73	21.74	22.05	21.99	22.15	2
	50	0	22.78	22.79	23.10	23.04	23.20	1	21.75	21.76	22.07	22.01	22.17	2

LTE Band / BW	RB Size	RB Offset	64QAM					3GPP MPR (dB)
			L-CH 39700 2501.0 MHz	M-CH 40160 2547.0 MHz	M-CH 40620 2593.0 MHz	M-CH 41080 2639.0 MHz	H-CH 41540 2685.0 MHz	
41 / 10M	1	0	21.40	21.41	21.72	21.66	21.82	2
	1	24	21.37	21.38	21.69	21.63	21.79	2
	1	49	21.34	21.35	21.66	21.60	21.76	2
	25	0	20.44	20.45	20.76	20.70	20.86	3
	25	12	20.40	20.41	20.72	20.66	20.82	3
	25	25	20.34	20.35	20.66	20.60	20.76	3
	50	0	20.33	20.34	20.65	20.59	20.75	3

LTE Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39725 2503.5 MHz	M-CH 40173 2548.3 MHz	M-CH 40620 2593.0 MHz	M-CH 41068 2637.8 MHz	H-CH 41515 2682.5 MHz		L-CH 39725 2503.5 MHz	M-CH 40173 2548.3 MHz	M-CH 40620 2593.0 MHz	M-CH 41068 2637.8 MHz	H-CH 41515 2682.5 MHz	
41 / 15M	1	0	23.58	23.59	23.90	23.84	24.00	0	22.47	22.48	22.79	22.73	22.89	1
	1	37	23.53	23.54	23.85	23.79	23.95	0	22.46	22.47	22.78	22.72	22.88	1
	1	74	23.48	23.49	23.80	23.74	23.90	0	22.42	22.43	22.74	22.68	22.84	1
	36	0	22.85	22.86	23.17	23.11	23.27	1	21.85	21.86	22.17	22.11	22.27	2
	36	19	22.82	22.83	23.14	23.08	23.24	1	21.82	21.83	22.14	22.08	22.24	2
	36	39	22.79	22.80	23.11	23.05	23.21	1	21.77	21.78	22.09	22.03	22.19	2
	75	0	22.82	22.83	23.14	23.08	23.24	1	21.79	21.80	22.11	22.05	22.21	2

LTE Band / BW	RB Size	RB Offset	64QAM					3GPP MPR (dB)
			L-CH 39725 2503.5 MHz	M-CH 40173 2548.3 MHz	M-CH 40620 2593.0 MHz	M-CH 41068 2637.8 MHz	H-CH 41515 2682.5 MHz	
41 / 15M	1	0	21.45	21.46	21.77	21.71	21.87	2
	1	37	21.42	21.43	21.74	21.68	21.84	2
	1	74	21.39	21.40	21.71	21.65	21.81	2
	36	0	20.49	20.50	20.81	20.75	20.91	3
	36	19	20.45	20.46	20.77	20.71	20.87	3
	36	39	20.39	20.40	20.71	20.65	20.81	3
	75	0	20.38	20.39	20.70	20.64	20.80	3

LTE Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490		L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490	
			2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
41 / 20M	1	0	23.64	23.65	23.96	23.90	**24.06**	0	22.53	22.54	22.85	22.79	22.95	1
	1	50	23.59	23.60	23.91	23.85	24.01	0	22.52	22.53	22.84	22.78	22.94	1
	1	99	23.54	23.55	23.86	23.80	23.96	0	22.48	22.49	22.80	22.74	22.90	1
	50	0	22.91	22.92	23.23	23.17	23.33	1	21.91	21.92	22.23	22.17	22.33	2
	50	25	22.88	22.89	23.20	23.14	23.30	1	21.88	21.89	22.20	22.14	22.30	2
	50	50	22.85	22.86	23.17	23.11	23.27	1	21.83	21.84	22.15	22.09	22.25	2
	100	0	22.88	22.89	23.20	23.14	23.30	1	21.85	21.86	22.17	22.11	22.27	2

LTE Band / BW	RB Size	RB Offset	64QAM					3GPP MPR (dB)
			L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490	
			2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
41 / 20M	1	0	21.50	21.51	21.82	21.76	21.92	2
	1	50	21.47	21.48	21.79	21.73	21.89	2
	1	99	21.44	21.45	21.76	21.70	21.86	2
	50	0	20.54	20.55	20.86	20.80	20.96	3
	50	25	20.50	20.51	20.82	20.76	20.92	3
	50	50	20.44	20.45	20.76	20.70	20.86	3
	100	0	20.43	20.44	20.75	20.69	20.85	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 131979	Mid CH 132322	High CH 132665		Low CH 131979	Mid CH 132322	High CH 132665		Low CH 131979	Mid CH 132322	High CH 132665	
			1710.7 MHz	1745.0 MHz	1779.3 MHz		1710.7 MHz	1745.0 MHz	1779.3 MHz		1710.7 MHz	1745.0 MHz	1779.3 MHz	
66 / 1.4M	1	0	23.38	23.42	23.45	0	22.34	22.38	22.44	1	21.21	21.25	21.34	2
	1	2	23.39	23.43	23.37	0	22.31	22.35	22.41	1	21.16	21.20	21.29	2
	1	5	23.24	23.28	23.22	0	22.26	22.30	22.36	1	21.14	21.18	21.27	2
	3	0	23.37	23.41	23.44	0	22.32	22.36	22.42	1	20.31	20.35	20.44	3
	3	1	23.38	23.42	23.36	0	22.29	22.33	22.39	1	20.27	20.31	20.40	3
	3	3	23.23	23.27	23.21	0	22.24	22.28	22.34	1	20.23	20.27	20.36	3
	6	0	22.46	22.50	22.58	1	21.17	21.21	21.30	2	20.30	20.34	20.43	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 131987	Mid CH 132322	High CH 132657		Low CH 131987	Mid CH 132322	High CH 132657		Low CH 131987	Mid CH 132322	High CH 132657	
			1711.5 MHz	1745.0 MHz	1778.5 MHz		1711.5 MHz	1745.0 MHz	1778.5 MHz		1711.5 MHz	1745.0 MHz	1778.5 MHz	
66 / 3M	1	0	23.41	23.45	23.48	0	22.37	22.41	22.47	1	21.26	21.30	21.39	2
	1	7	23.42	23.46	23.40	0	22.34	22.38	22.44	1	21.21	21.25	21.34	2
	1	14	23.27	23.31	23.25	0	22.29	22.33	22.39	1	21.19	21.23	21.32	2
	8	0	22.55	22.59	22.66	0	21.25	21.29	21.35	1	20.36	20.40	20.49	3
	8	3	22.51	22.55	22.62	0	21.22	21.26	21.35	1	20.32	20.36	20.45	3
	8	7	22.48	22.52	22.60	0	21.18	21.22	21.31	1	20.28	20.32	20.41	3
	15	0	22.49	22.53	22.61	1	21.20	21.24	21.33	2	20.35	20.39	20.48	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 131997 1712.5 MHz	Mid CH 132322 1745.0 MHz	High CH 132647 1777.5 MHz		Low CH 131997 1712.5 MHz	Mid CH 132322 1745.0 MHz	High CH 132647 1777.5 MHz		Low CH 131997 1712.5 MHz	Mid CH 132322 1745.0 MHz	High CH 132647 1777.5 MHz	
66 / 5M	1	0	23.44	23.48	23.51	0	22.40	22.44	22.50	1	21.31	21.35	21.44	2
	1	12	23.45	23.49	23.43	0	22.37	22.41	22.47	1	21.26	21.30	21.39	2
	1	24	23.30	23.34	23.28	0	22.32	22.36	22.42	1	21.24	21.28	21.37	2
	12	0	22.58	22.62	22.69	0	21.28	21.32	21.38	1	20.41	20.45	20.54	3
	12	6	22.54	22.58	22.65	0	21.25	21.29	21.38	1	20.37	20.41	20.50	3
	12	13	22.51	22.55	22.63	0	21.21	21.25	21.34	1	20.33	20.37	20.46	3
	25	0	22.52	22.56	22.64	1	21.23	21.27	21.36	2	20.40	20.44	20.53	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 132022 1715.0 MHz	Mid CH 132322 1745.0 MHz	High CH 132622 1775.0 MHz		Low CH 132022 1715.0 MHz	Mid CH 132322 1745.0 MHz	High CH 132622 1775.0 MHz		Low CH 132022 1715.0 MHz	Mid CH 132322 1745.0 MHz	High CH 132622 1775.0 MHz	
66 / 10M	1	0	23.46	23.50	23.53	0	22.42	22.46	22.52	1	21.36	21.40	21.49	2
	1	24	23.47	23.51	23.45	0	22.39	22.43	22.49	1	21.31	21.35	21.44	2
	1	49	23.32	23.36	23.30	0	22.34	22.38	22.44	1	21.29	21.33	21.42	2
	25	0	22.60	22.64	22.71	0	21.30	21.34	21.40	1	20.46	20.50	20.59	3
	25	12	22.56	22.60	22.67	0	21.27	21.31	21.40	1	20.42	20.46	20.55	3
	25	25	22.53	22.57	22.65	0	21.23	21.27	21.36	1	20.38	20.42	20.51	3
	50	0	22.54	22.58	22.66	1	21.25	21.29	21.38	2	20.45	20.49	20.58	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 132047 1717.5 MHz	Mid CH 132322 1745.0 MHz	High CH 132597 1772.5 MHz		Low CH 132047 1717.5 MHz	Mid CH 132322 1745.0 MHz	High CH 132597 1772.5 MHz		Low CH 132047 1717.5 MHz	Mid CH 132322 1745.0 MHz	High CH 132597 1772.5 MHz	
66 / 15M	1	0	23.49	23.53	23.56	0	22.45	22.49	22.55	1	21.41	21.45	21.54	2
	1	37	23.50	23.54	23.48	0	22.42	22.46	22.52	1	21.36	21.40	21.49	2
	1	74	23.35	23.39	23.33	0	22.37	22.41	22.47	1	21.34	21.38	21.47	2
	36	0	22.63	22.67	22.74	0	21.33	21.37	21.43	1	20.51	20.55	20.64	3
	36	19	22.59	22.63	22.70	0	21.30	21.34	21.43	1	20.47	20.51	20.60	3
	36	39	22.56	22.60	22.68	0	21.26	21.30	21.39	1	20.43	20.47	20.56	3
	75	0	22.57	22.61	22.69	1	21.28	21.32	21.41	2	20.50	20.54	20.63	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 132072 1720.0 MHz	Mid CH 132322 1745.0 MHz	High CH 132572 1770.0 MHz		Low CH 132072 1720.0 MHz	Mid CH 132322 1745.0 MHz	High CH 132572 1770.0 MHz		Low CH 132072 1720.0 MHz	Mid CH 132322 1745.0 MHz	High CH 132572 1770.0 MHz	
66 / 20M	1	0	23.54	23.58	**23.61**	0	22.50	22.54	22.60	1	21.46	21.50	21.59	2
	1	50	23.55	23.59	23.53	0	22.47	22.51	22.57	1	21.41	21.45	21.54	2
	1	99	23.40	23.44	23.38	0	22.42	22.46	22.52	1	21.39	21.43	21.52	2
	50	0	22.68	22.72	22.79	0	21.38	21.42	21.48	1	20.56	20.60	20.69	3
	50	25	22.64	22.68	22.75	0	21.35	21.39	21.48	1	20.52	20.56	20.65	3
	50	50	22.61	22.65	22.73	0	21.31	21.35	21.44	1	20.48	20.52	20.61	3
	100	0	22.62	22.66	22.74	1	21.33	21.37	21.46	2	20.55	20.59	20.68	3

<WLAN 2.4G>

Mode	802.11b		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power	**17.76**	17.51	17.58
Mode	**802.11g**		
Channel / Frequency (MHz)	**1 (2412)**	**6 (2437)**	**11 (2462)**
Average Power	**16.49**	16.15	16.43
Mode	**802.11n (HT20)**		
Channel / Frequency (MHz)	**1 (2412)**	**6 (2437)**	**11 (2462)**
Average Power	16.15	15.96	**16.35**
Mode	**802.11n (HT40)**		
Channel / Frequency (MHz)	**3 (2422)**	**6 (2437)**	**9 (2452)**
Average Power	12.84	12.81	**13.24**

<WLAN 5.2G>

Mode	802.11a		
Channel / Frequency (MHz)	36 (5180)	40 (5200)	48 (5240)
Average Power	16.25	16.39	**16.57**
Mode	**802.11n (HT20)**		
Channel / Frequency (MHz)	**36 (5180)**	**40 (5200)**	**48 (5240)**
Average Power	**16.69**	16.42	16.63
Mode	**802.11n (HT40)**		
Channel / Frequency (MHz)	**38 (5190)**	**46 (5230)**	
Average Power	12.51	**12.87**	
Mode	**802.11ac (VHT80)**		
Channel / Frequency (MHz)	**42 (5210)**		
Average Power	**10.59**		

<WLAN 5.3G>

Mode	802.11a		
Channel / Frequency (MHz)	52 (5260)	60 (5300)	64 (5320)
Average Power	16.82	17.13	**17.34**
Mode	**802.11n (HT20)**		
Channel / Frequency (MHz)	**52 (5260)**	**60 (5300)**	**64 (5320)**
Average Power	17.43	**17.75**	17.65
Mode	**802.11n (HT40)**		
Channel / Frequency (MHz)	**54 (5270)**	**62 (5310)**	
Average Power	13.11	**13.15**	
Mode	**802.11ac (VHT80)**		
Channel / Frequency (MHz)	**58 (5290)**		
Average Power	**10.73**		

<WLAN 5.6G>

Mode	802.11a		
Channel / Frequency (MHz)	100 (5500)	116 (5580)	140 (5700)
Average Power	16.18	**16.59**	16.52
Mode	**802.11n (HT20)**		
Channel / Frequency (MHz)	**100 (5500)**	**116 (5580)**	**140 (5700)**
Average Power	15.92	**16.37**	16.25
Mode	**802.11n (HT40)**		
Channel / Frequency (MHz)	**102 (5510)**	**134 (5670)**	
Average Power	16.29	**16.49**	
Mode	**802.11ac (VHT80)**		
Channel / Frequency (MHz)	**106 (5530)**		
Average Power	**13.26**		

<WLAN 5.8G>

Mode	802.11a		
Channel / Frequency (MHz)	149 (5745)	157 (5785)	165 (5825)
Average Power	16.67	16.52	**16.75**
Mode	**802.11n (HT20)**		
Channel / Frequency (MHz)	**149 (5745)**	**157 (5785)**	**165 (5825)**
Average Power	16.58	**16.67**	16.45
Mode	**802.11n (HT40)**		
Channel / Frequency (MHz)	**151 (5755)**	**159 (5795)**	
Average Power	**17.26**	17.20	
Mode	**802.11ac (VHT80)**		
Channel / Frequency (MHz)	**155 (5775)**		
Average Power	**15.34**		

<Bluetooth>

Mode	Bluetooth GFSK		
Channel / Frequency (MHz)	0 (2402)	39 (2441)	78 (2480)
Average Power	8.91	**9.34**	8.82
Mode	**Bluetooth π/4-DQPSK**		
Channel / Frequency (MHz)	**0 (2402)**	**39 (2441)**	**78 (2480)**
Average Power	5.85	**6.02**	5.84
Mode	**Bluetooth 8DPSK**		
Channel / Frequency (MHz)	**0 (2402)**	**39 (2441)**	**78 (2480)**
Average Power	5.94	**6.08**	5.74
Mode	**Bluetooth LE**		
Channel / Frequency (MHz)	**0 (2402)**	**19 (2440)**	**39 (2480)**
Average Power	-2.02	-1.32	**-0.87**

4.7 SAR Testing Results

4.7.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

(1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

(2) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz

(3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

<KDB 941225 D01, 3G SAR Measurement Procedures>

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 1/4 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

<KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>

(1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

(2) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > 1/2 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is > 1/2 dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

(1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is <= 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is <= 0.8 W/kg or all test positions are measured.

(2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is <= 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is <= 1.2 W/kg.

(3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is <= 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is <= 1.2 W/kg.

4.7.2 SAR Results for Head Exposure Condition

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	GSM850	GPRS12	Right Cheek	128	30.0	29.92	-0.02	0.325	1.02	0.33
	GSM850	GPRS12	Right Tilted	128	30.0	29.92	0.01	0.171	1.02	0.17
1	GSM850	GPRS12	Left Cheek	128	30.0	29.92	0.02	0.359	1.02	**0.37**
	GSM850	GPRS12	Left Tilted	128	30.0	29.92	0.09	0.172	1.02	0.18
2	GSM1900	GPRS12	Right Cheek	512	27.8	26.79	-0.01	0.267	1.26	**0.34**
	GSM1900	GPRS12	Right Tilted	512	27.8	26.79	0.09	0.077	1.26	0.10
	GSM1900	GPRS12	Left Cheek	512	27.8	26.79	0.02	0.148	1.26	0.19
	GSM1900	GPRS12	Left Tilted	512	27.8	26.79	0.03	0.063	1.26	0.08
3	WCDMA II	RMC12.2K	Right Cheek	9538	25.0	24.45	0.00	0.599	1.14	**0.68**
	WCDMA II	RMC12.2K	Right Tilted	9538	25.0	24.45	-0.02	0.174	1.14	0.20
	WCDMA II	RMC12.2K	Left Cheek	9538	25.0	24.45	0.06	0.333	1.14	0.38
	WCDMA II	RMC12.2K	Left Tilted	9538	25.0	24.45	-0.01	0.145	1.14	0.16
4	WCDMA IV	RMC12.2K	Right Cheek	1513	24.5	24.19	-0.01	0.472	1.07	**0.51**
	WCDMA IV	RMC12.2K	Right Tilted	1513	24.5	24.19	0.00	0.274	1.07	0.29
	WCDMA IV	RMC12.2K	Left Cheek	1513	24.5	24.19	0.09	0.291	1.07	0.31
	WCDMA IV	RMC12.2K	Left Tilted	1513	24.5	24.19	0.02	0.178	1.07	0.19
	WCDMA V	RMC12.2K	Right Cheek	4132	25.0	24.54	-0.02	0.179	1.11	0.20
	WCDMA V	RMC12.2K	Right Tilted	4132	25.0	24.54	0.03	0.141	1.11	0.16
5	WCDMA V	RMC12.2K	Left Cheek	4132	25.0	24.54	-0.02	0.294	1.11	**0.33**
	WCDMA V	RMC12.2K	Left Tilted	4132	25.0	24.54	0.01	0.141	1.11	0.16

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
6	LTE 2	QPSK20M	Right Cheek	19100	1	0	24.2	23.84	0.07	0.577	1.09	**0.63**
	LTE 2	QPSK20M	Right Tilted	19100	1	0	24.2	23.84	0.08	0.156	1.09	0.17
	LTE 2	QPSK20M	Left Cheek	19100	1	0	24.2	23.84	0.01	0.276	1.09	0.30
	LTE 2	QPSK20M	Left Tilted	19100	1	0	24.2	23.84	0.01	0.119	1.09	0.13
	LTE 2	QPSK20M	Right Cheek	19100	50	0	23.2	22.97	0.01	0.446	1.05	0.47
	LTE 2	QPSK20M	Right Tilted	19100	50	0	23.2	22.97	0.03	0.121	1.05	0.13
	LTE 2	QPSK20M	Left Cheek	19100	50	0	23.2	22.97	-0.02	0.214	1.05	0.23
	LTE 2	QPSK20M	Left Tilted	19100	50	0	23.2	22.97	0.01	0.092	1.05	0.10
7	LTE 4	QPSK20M	Right Cheek	20050	1	0	24.2	23.64	-0.05	0.498	1.14	**0.57**
	LTE 4	QPSK20M	Right Tilted	20050	1	0	24.2	23.64	-0.04	0.243	1.14	0.28
	LTE 4	QPSK20M	Left Cheek	20050	1	0	24.2	23.64	0.17	0.257	1.14	0.29
	LTE 4	QPSK20M	Left Tilted	20050	1	0	24.2	23.64	-0.02	0.158	1.14	0.18
	LTE 4	QPSK20M	Right Cheek	20050	50	0	23.2	22.74	0.01	0.391	1.11	0.43
	LTE 4	QPSK20M	Right Tilted	20050	50	0	23.2	22.74	0.15	0.187	1.11	0.21
	LTE 4	QPSK20M	Left Cheek	20050	50	0	23.2	22.74	0.06	0.197	1.11	0.22
	LTE 4	QPSK20M	Left Tilted	20050	50	0	23.2	22.74	0.00	0.121	1.11	0.13
	LTE 5	QPSK10M	Right Cheek	20600	1	0	24.0	22.99	-0.02	0.161	1.26	0.20
	LTE 5	QPSK10M	Right Tilted	20600	1	0	24.0	22.99	0.01	0.081	1.26	0.10
8	LTE 5	QPSK10M	Left Cheek	20600	1	0	24.0	22.99	-0.03	0.251	1.26	**0.32**
	LTE 5	QPSK10M	Left Tilted	20600	1	0	24.0	22.99	0.01	0.126	1.26	0.16
	LTE 5	QPSK10M	Right Cheek	20600	25	0	23.0	22.08	-0.06	0.117	1.24	0.14
	LTE 5	QPSK10M	Right Tilted	20600	25	0	23.0	22.08	0.10	0.058	1.24	0.07
	LTE 5	QPSK10M	Left Cheek	20600	25	0	23.0	22.08	0.04	0.183	1.24	0.23
	LTE 5	QPSK10M	Left Tilted	20600	25	0	23.0	22.08	0.06	0.092	1.24	0.11

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 7	QPSK20M	Right Cheek	21350	1	0	24.0	22.64	0.01	0.151	1.37	0.21
	LTE 7	QPSK20M	Right Tilted	21350	1	0	24.0	22.64	0.02	0.137	1.37	0.19
9	LTE 7	QPSK20M	Left Cheek	21350	1	0	24.0	22.64	-0.11	0.319	1.37	**0.44**
	LTE 7	QPSK20M	Left Tilted	21350	1	0	24.0	22.64	0.01	0.241	1.37	0.33
	LTE 7	QPSK20M	Right Cheek	21350	50	0	23.0	21.76	-0.04	0.123	1.33	0.16
	LTE 7	QPSK20M	Right Tilted	21350	50	0	23.0	21.76	0.09	0.112	1.33	0.15
	LTE 7	QPSK20M	Left Cheek	21350	50	0	23.0	21.76	0.05	0.262	1.33	0.35
	LTE 7	QPSK20M	Left Tilted	21350	50	0	23.0	21.76	0.01	0.063	1.33	0.08
10	LTE 12	QPSK10M	Right Cheek	23130	1	0	24.0	23.58	0.05	0.198	1.10	**0.22**
	LTE 12	QPSK10M	Right Tilted	23130	1	0	24.0	23.58	0.09	0.106	1.10	0.12
	LTE 12	QPSK10M	Left Cheek	23130	1	0	24.0	23.58	0.05	0.183	1.10	0.20
	LTE 12	QPSK10M	Left Tilted	23130	1	0	24.0	23.58	0.01	0.098	1.10	0.11
	LTE 12	QPSK10M	Right Cheek	23130	25	0	23.0	22.68	-0.01	0.164	1.08	0.18
	LTE 12	QPSK10M	Right Tilted	23130	25	0	23.0	22.68	-0.11	0.087	1.08	0.09
	LTE 12	QPSK10M	Left Cheek	23130	25	0	23.0	22.68	0.01	0.164	1.08	0.18
	LTE 12	QPSK10M	Left Tilted	23130	25	0	23.0	22.68	-0.04	0.081	1.08	0.09
	LTE 13	QPSK10M	Right Cheek	23230	1	0	24.0	23.19	-0.01	0.124	1.21	0.15
	LTE 13	QPSK10M	Right Tilted	23230	1	0	24.0	23.19	0.10	0.062	1.21	0.07
11	LTE 13	QPSK10M	Left Cheek	23230	1	0	24.0	23.19	0.02	0.193	1.21	**0.23**
	LTE 13	QPSK10M	Left Tilted	23230	1	0	24.0	23.19	0.02	0.094	1.21	0.11
	LTE 13	QPSK10M	Right Cheek	23230	25	0	23.0	22.29	-0.11	0.093	1.18	0.11
	LTE 13	QPSK10M	Right Tilted	23230	25	0	23.0	22.29	0.01	0.047	1.18	0.06
	LTE 13	QPSK10M	Left Cheek	23230	25	0	23.0	22.29	-0.04	0.146	1.18	0.17
	LTE 13	QPSK10M	Left Tilted	23230	25	0	23.0	22.29	0.03	0.071	1.18	0.08
	LTE 14	QPSK10M	Right Cheek	23330	1	0	24.0	23.24	-0.04	0.136	1.19	0.16
	LTE 14	QPSK10M	Right Tilted	23330	1	0	24.0	23.24	0.03	0.067	1.19	0.08
12	LTE 14	QPSK10M	Left Cheek	23330	1	0	24.0	23.24	-0.09	0.213	1.19	**0.25**
	LTE 14	QPSK10M	Left Tilted	23330	1	0	24.0	23.24	0.17	0.109	1.19	0.13
	LTE 14	QPSK10M	Right Cheek	23330	25	0	23.0	22.37	0.07	0.102	1.16	0.12
	LTE 14	QPSK10M	Right Tilted	23330	25	0	23.0	22.37	0.12	0.051	1.16	0.06
	LTE 14	QPSK10M	Left Cheek	23330	25	0	23.0	22.37	0.01	0.161	1.16	0.19
	LTE 14	QPSK10M	Left Tilted	23330	25	0	23.0	22.37	0.03	0.082	1.16	0.09
13	LTE 25	QPSK20M	Right Cheek	26590	1	0	24.2	23.76	0.12	0.54	1.11	**0.60**
	LTE 25	QPSK20M	Right Tilted	26590	1	0	24.2	23.76	0.12	0.151	1.11	0.17
	LTE 25	QPSK20M	Left Cheek	26590	1	0	24.2	23.76	-0.03	0.259	1.11	0.29
	LTE 25	QPSK20M	Left Tilted	26590	1	0	24.2	23.76	0.10	0.137	1.11	0.15
	LTE 25	QPSK20M	Right Cheek	26590	50	0	23.2	22.82	0.01	0.425	1.09	0.46
	LTE 25	QPSK20M	Right Tilted	26590	50	0	23.2	22.82	0.09	0.118	1.09	0.13
	LTE 25	QPSK20M	Left Cheek	26590	50	0	23.2	22.82	0.01	0.204	1.09	0.22
	LTE 25	QPSK20M	Left Tilted	26590	50	0	23.2	22.82	0.05	0.107	1.09	0.12
	LTE 26	QPSK15M	Right Cheek	26865	1	0	24.5	23.99	0.02	0.194	1.12	0.22
	LTE 26	QPSK15M	Right Tilted	26865	1	0	24.5	23.99	0.01	0.093	1.12	0.10
14	LTE 26	QPSK15M	Left Cheek	26865	1	0	24.5	23.99	0.09	0.307	1.12	**0.35**
	LTE 26	QPSK15M	Left Tilted	26865	1	0	24.5	23.99	0.07	0.149	1.12	0.17
	LTE 26	QPSK15M	Right Cheek	26865	36	0	23.5	22.98	0.12	0.142	1.13	0.16
	LTE 26	QPSK15M	Right Tilted	26865	36	0	23.5	22.98	0.01	0.069	1.13	0.08
	LTE 26	QPSK15M	Left Cheek	26865	36	0	23.5	22.98	-0.04	0.225	1.13	0.25
	LTE 26	QPSK15M	Left Tilted	26865	36	0	23.5	22.98	0.15	0.111	1.13	0.13

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 30	QPSK10M	Right Cheek	27710	1	0	24.0	23.67	0.02	0.182	1.08	0.20
	LTE 30	QPSK10M	Right Tilted	27710	1	0	24.0	23.67	0.01	0.148	1.08	0.16
15	LTE 30	QPSK10M	Left Cheek	27710	1	0	24.0	23.67	0.01	0.403	1.08	**0.43**
	LTE 30	QPSK10M	Left Tilted	27710	1	0	24.0	23.67	0.01	0.082	1.08	0.09
	LTE 30	QPSK10M	Right Cheek	27710	25	0	23.0	22.69	0.09	0.144	1.07	0.15
	LTE 30	QPSK10M	Right Tilted	27710	25	0	23.0	22.69	0.07	0.117	1.07	0.13
	LTE 30	QPSK10M	Left Cheek	27710	25	0	23.0	22.69	0.12	0.317	1.07	0.34
	LTE 30	QPSK10M	Left Tilted	27710	25	0	23.0	22.69	0.09	0.065	1.07	0.07
	LTE 38	QPSK20M	Right Cheek	38150	1	0	24.0	22.97	0.02	0.086	1.27	0.11
	LTE 38	QPSK20M	Right Tilted	38150	1	0	24.0	22.97	-0.08	0.078	1.27	0.10
16	LTE 38	QPSK20M	Left Cheek	38150	1	0	24.0	22.97	0.02	0.182	1.27	**0.23**
	LTE 38	QPSK20M	Left Tilted	38150	1	0	24.0	22.97	-0.11	0.044	1.27	0.06
	LTE 38	QPSK20M	Right Cheek	38150	50	0	23.0	22.07	0.02	0.07	1.24	0.09
	LTE 38	QPSK20M	Right Tilted	38150	50	0	23.0	22.07	0.08	0.064	1.24	0.08
	LTE 38	QPSK20M	Left Cheek	38150	50	0	23.0	22.07	0.01	0.151	1.24	0.19
	LTE 38	QPSK20M	Left Tilted	38150	50	0	23.0	22.07	-0.01	0.037	1.24	0.05
	LTE 40	QPSK10M	Right Cheek	38750	1	0	23.5	23.12	0.02	0.151	1.09	0.16
	LTE 40	QPSK10M	Right Tilted	38750	1	0	23.5	23.12	0.03	0.122	1.09	0.13
17	LTE 40	QPSK10M	Left Cheek	38750	1	0	23.5	23.12	0.00	0.334	1.09	**0.36**
	LTE 40	QPSK10M	Left Tilted	38750	1	0	23.5	23.12	0.00	0.068	1.09	0.07
	LTE 40	QPSK10M	Right Cheek	38750	25	0	22.5	22.25	0.01	0.119	1.06	0.13
	LTE 40	QPSK10M	Right Tilted	38750	25	0	22.5	22.25	-0.03	0.097	1.06	0.10
	LTE 40	QPSK10M	Left Cheek	38750	25	0	22.5	22.25	0.01	0.262	1.06	0.28
	LTE 40	QPSK10M	Left Tilted	38750	25	0	22.5	22.25	0.01	0.063	1.06	0.07
	LTE 41	QPSK20M	Right Cheek	41490	1	0	24.5	24.06	-0.02	0.088	1.11	0.10
	LTE 41	QPSK20M	Right Tilted	41490	1	0	24.5	24.06	0.00	0.079	1.11	0.09
18	LTE 41	QPSK20M	Left Cheek	41490	1	0	24.5	24.06	0.01	0.185	1.11	**0.20**
	LTE 41	QPSK20M	Left Tilted	41490	1	0	24.5	24.06	0.01	0.045	1.11	0.05
	LTE 41	QPSK20M	Right Cheek	41490	50	0	23.5	23.33	0.10	0.072	1.04	0.07
	LTE 41	QPSK20M	Right Tilted	41490	50	0	23.5	23.33	0.05	0.065	1.04	0.07
	LTE 41	QPSK20M	Left Cheek	41490	50	0	23.5	23.33	-0.03	0.152	1.04	0.16
	LTE 41	QPSK20M	Left Tilted	41490	50	0	23.5	23.33	0.01	0.037	1.04	0.04
19	LTE 66	QPSK20M	Right Cheek	132572	1	0	24.2	23.61	0.08	0.516	1.15	**0.59**
	LTE 66	QPSK20M	Right Tilted	132572	1	0	24.2	23.61	-0.09	0.225	1.15	0.26
	LTE 66	QPSK20M	Left Cheek	132572	1	0	24.2	23.61	0.01	0.289	1.15	0.33
	LTE 66	QPSK20M	Left Tilted	132572	1	0	24.2	23.61	0.00	0.142	1.15	0.16
	LTE 66	QPSK20M	Right Cheek	132572	50	0	23.2	22.79	0.08	0.402	1.10	0.44
	LTE 66	QPSK20M	Right Tilted	132572	50	0	23.2	22.79	0.06	0.175	1.10	0.19
	LTE 66	QPSK20M	Left Cheek	132572	50	0	23.2	22.79	0.07	0.225	1.10	0.25
	LTE 66	QPSK20M	Left Tilted	132572	50	0	23.2	22.79	0.04	0.111	1.10	0.12

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
20	802.11b	-	Right Cheek	1	18.0	17.76	0.13	0.621	1.06	**0.66**
	802.11b	-	Right Tilted	1	18.0	17.76	-0.02	0.439	1.06	0.46
	802.11b	-	Left Cheek	1	18.0	17.76	0.01	0.321	1.06	0.34
	802.11b	-	Left Tilted	1	18.0	17.76	0.05	0.244	1.06	0.26
21	802.11a	-	Right Cheek	48	17.0	16.57	0.06	1.12	1.10	**1.24**
	802.11a	-	Right Tilted	48	17.0	16.57	0.00	0.803	1.10	0.89
	802.11a	-	Left Cheek	48	17.0	16.57	0.08	0.767	1.10	0.85
	802.11a	-	Left Tilted	48	17.0	16.57	0.06	0.791	1.10	0.87
	802.11a	-	Right Cheek	40	17.0	16.39	0.02	1.02	1.15	1.17
	802.11a	-	Right Tilted	40	17.0	16.39	0.01	0.731	1.15	0.84
	802.11a	-	Left Cheek	40	17.0	16.39	0.05	0.697	1.15	0.80
	802.11a	-	Left Tilted	40	17.0	16.39	0.00	0.718	1.15	0.83
	802.11a	-	Right Cheek	48	17.0	16.57	-0.06	1.1	1.10	1.21
22	802.11n	HT20	Right Cheek	60	18.0	17.75	0.01	1.29	1.06	**1.37**
	802.11n	HT20	Right Tilted	60	18.0	17.75	0.01	0.961	1.06	1.02
	802.11n	HT20	Left Cheek	60	18.0	17.75	0.00	0.918	1.06	0.97
	802.11n	HT20	Left Tilted	60	18.0	17.75	0.08	0.945	1.06	1.00
	802.11n	HT20	Right Cheek	64	18.0	17.65	0.02	1.22	1.08	1.32
	802.11n	HT20	Right Cheek	52	18.0	17.43	0.12	1.18	1.14	1.35
	802.11n	HT20	Right Tilted	64	18.0	17.51	0.01	0.882	1.12	0.99
	802.11n	HT20	Left Cheek	64	18.0	17.51	-0.03	0.843	1.12	0.94
	802.11n	HT20	Left Tilted	64	18.0	17.51	0.06	0.868	1.12	0.97
	802.11n	HT20	Right Cheek	60	18.0	17.75	0.10	1.27	1.06	1.35
	802.11n	HT40	Right Cheek	134	17.0	16.49	0.08	1.14	1.12	1.28
	802.11n	HT40	Right Tilted	134	17.0	16.49	0.02	0.934	1.12	1.05
	802.11n	HT40	Left Cheek	134	17.0	16.49	0.12	0.852	1.12	0.96
	802.11n	HT40	Left Tilted	134	17.0	16.49	0.01	0.843	1.12	0.95
23	802.11n	HT40	Right Cheek	102	17.0	16.29	0.01	1.1	1.18	**1.30**
	802.11n	HT40	Right Tilted	102	17.0	16.29	-0.02	0.888	1.18	1.05
	802.11n	HT40	Left Cheek	102	17.0	16.29	0.01	0.822	1.18	0.97
	802.11n	HT40	Left Tilted	102	17.0	16.29	0.03	0.808	1.18	0.95
	802.11n	HT40	Right Cheek	134	17.0	16.49	0.07	1.13	1.12	1.27
	802.11n	HT40	Right Cheek	151	17.5	17.26	0.01	1.26	1.06	1.33
	802.11n	HT40	Right Tilted	151	17.5	17.26	-0.02	1.04	1.06	1.10
	802.11n	HT40	Left Cheek	151	17.5	17.26	0.01	0.957	1.06	1.01
	802.11n	HT40	Left Tilted	151	17.5	17.26	-0.03	0.939	1.06	0.99
24	802.11n	HT40	Right Cheek	159	17.5	17.20	0.01	1.27	1.07	**1.36**
	802.11n	HT40	Right Tilted	159	17.5	17.20	0.05	1.03	1.07	1.10
	802.11n	HT40	Left Cheek	159	17.5	17.20	-0.01	0.951	1.07	1.02
	802.11n	HT40	Left Tilted	159	17.5	17.20	0.03	0.932	1.07	1.00
	802.11n	HT40	Right Cheek	151	17.5	17.26	0.02	1.26	1.06	1.33
25	BT	GFSK	Right Cheek	39	9.5	9.34	0.03	0.061	1.04	**0.06**
	BT	GFSK	Right Tilted	39	9.5	9.34	-0.03	0.042	1.04	0.04
	BT	GFSK	Left Cheek	39	9.5	9.34	0.05	0.031	1.04	0.03
	BT	GFSK	Left Tilted	39	9.5	9.34	0.00	0.023	1.04	0.02

4.7.3 SAR Results for Body-worn Exposure Condition (Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	Earphone	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	GSM850	GPRS12	Front Face	128	-	30.0	29.92	0.02	0.358	1.02	0.36
30	GSM850	GPRS12	Rear Face	128	-	30.0	29.92	0.02	0.577	1.02	**0.59**
	GSM1900	GPRS12	Front Face	512	-	27.8	26.79	0.02	0.284	1.26	0.36
31	GSM1900	GPRS12	Rear Face	512	-	27.8	26.79	-0.02	0.454	1.26	**0.57**
	WCDMA II	RMC12.2K	Front Face	9538	-	25.0	24.45	0.10	0.727	1.14	0.83
32	WCDMA II	RMC12.2K	Rear Face	9538	-	25.0	24.45	-0.06	1.18	1.14	**1.34**
	WCDMA II	RMC12.2K	Front Face	9262	-	25.0	24.31	0.06	0.661	1.17	0.77
	WCDMA II	RMC12.2K	Front Face	9400	-	25.0	24.29	0.01	0.715	1.18	0.84
	WCDMA II	RMC12.2K	Rear Face	9262	-	25.0	24.31	0.02	1.07	1.17	1.25
	WCDMA II	RMC12.2K	Rear Face	9400	-	25.0	24.29	-0.01	1.13	1.18	1.33
	WCDMA II	RMC12.2K	Rear Face	9538	V	25.0	24.45	-0.03	1.16	1.14	1.32
	WCDMA II	RMC12.2K	Rear Face	9262	V	25.0	24.31	0.03	1.02	1.17	1.20
	WCDMA II	RMC12.2K	Rear Face	9400	V	25.0	24.29	0.01	1.1	1.18	1.30
	WCDMA II	RMC12.2K	Rear Face	9538	-	25.0	24.45	0.01	1.16	1.14	1.32
	WCDMA IV	RMC12.2K	Front Face	1513	-	24.5	24.19	-0.01	0.689	1.07	0.74
33	WCDMA IV	RMC12.2K	Rear Face	1513	-	24.5	24.19	0.02	1.23	1.07	**1.32**
	WCDMA IV	RMC12.2K	Rear Face	1312	-	24.5	24.13	0.01	1.09	1.09	1.19
	WCDMA IV	RMC12.2K	Rear Face	1413	-	24.5	24.08	-0.07	1.12	1.10	1.23
	WCDMA IV	RMC12.2K	Rear Face	1513	V	24.5	24.19	0.12	1.21	1.07	1.30
	WCDMA IV	RMC12.2K	Rear Face	1413	V	24.5	24.08	-0.01	1.06	1.10	1.17
	WCDMA IV	RMC12.2K	Rear Face	1513	-	24.5	24.19	0.09	1.21	1.07	1.30
	WCDMA V	RMC12.2K	Front Face	4132	-	25.0	24.54	0.01	0.389	1.11	0.43
34	WCDMA V	RMC12.2K	Rear Face	4132	-	25.0	24.54	0.05	0.609	1.11	**0.68**

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Earphone	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 2	QPSK20M	Front Face	19100	1	0	-	24.2	23.84	0.01	0.624	1.09	0.68
	LTE 2	QPSK20M	Rear Face	19100	1	0	-	24.2	23.84	0.10	0.98	1.09	1.06
	LTE 2	QPSK20M	Front Face	19100	50	0	-	23.2	22.97	0.01	0.5	1.05	0.53
	LTE 2	QPSK20M	Rear Face	19100	50	0	-	23.2	22.97	0.08	0.891	1.05	0.94
	LTE 2	QPSK20M	Rear Face	18700	1	0	-	24.2	23.64	0.00	0.957	1.14	1.09
35	LTE 2	QPSK20M	Rear Face	18900	1	0	-	24.2	23.75	0.06	0.982	1.11	**1.09**
	LTE 2	QPSK20M	Rear Face	18700	50	0	-	23.2	22.77	-0.11	0.837	1.10	0.92
	LTE 2	QPSK20M	Rear Face	18900	50	0	-	23.2	22.88	0.06	0.817	1.08	0.88
	LTE 2	QPSK20M	Rear Face	19100	100	0	-	23.2	22.86	-0.11	0.885	1.08	0.96
	LTE 2	QPSK20M	Rear Face	18900	1	0	-	24.2	23.75	0.10	0.977	1.11	1.08
	LTE 4	QPSK20M	Front Face	20050	1	0	-	24.2	23.64	0.03	0.505	1.14	0.57
	LTE 4	QPSK20M	Rear Face	20050	1	0	-	24.2	23.64	-0.11	0.901	1.14	1.03
	LTE 4	QPSK20M	Front Face	20050	50	0	-	23.2	22.74	0.14	0.423	1.11	0.47
	LTE 4	QPSK20M	Rear Face	20050	50	0	-	23.2	22.74	0.01	0.854	1.11	0.95
	LTE 4	QPSK20M	Rear Face	20175	1	0	-	24.2	23.55	0.00	0.991	1.16	1.15
36	LTE 4	QPSK20M	Rear Face	20300	1	0	-	24.2	23.53	0.07	1.01	1.17	**1.18**
	LTE 4	QPSK20M	Rear Face	20175	50	0	-	23.2	22.65	0.10	0.758	1.14	0.86
	LTE 4	QPSK20M	Rear Face	20300	50	0	-	23.2	22.63	0.05	0.74	1.14	0.84
	LTE 4	QPSK20M	Rear Face	20050	100	0	-	23.2	22.63	0.01	0.872	1.14	0.99
	LTE 4	QPSK20M	Rear Face	20300	1	0	-	24.2	23.53	0.12	0.982	1.17	1.15

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Earphone	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Front Face	20600	1	0	-	24.0	22.99	0.11	0.263	1.26	0.33
37	LTE 5	QPSK10M	Rear Face	20600	1	0	-	24.0	22.99	0.09	0.416	1.26	**0.52**
	LTE 5	QPSK10M	Front Face	20600	25	0	-	23.0	22.08	0.18	0.211	1.24	0.26
	LTE 5	QPSK10M	Rear Face	20600	25	0	-	23.0	22.08	0.07	0.333	1.24	0.41
	LTE 7	QPSK20M	Front Face	21350	1	0	-	24.0	22.64	0.10	0.259	1.37	0.35
38	LTE 7	QPSK20M	Rear Face	21350	1	0	-	24.0	22.64	0.02	0.832	1.37	1.14
	LTE 7	QPSK20M	Front Face	21350	50	0	-	23.0	21.76	0.01	0.21	1.33	0.28
	LTE 7	QPSK20M	Rear Face	21350	50	0	-	23.0	21.76	0.11	0.699	1.33	0.93
	LTE 7	QPSK20M	Rear Face	20850	1	0	-	24.0	22.52	0.00	0.789	1.41	1.11
	LTE 7	QPSK20M	Rear Face	21100	1	0	-	24.0	22.61	0.08	0.861	1.38	**1.19**
	LTE 7	QPSK20M	Rear Face	20850	50	0	-	23.0	21.64	-0.01	0.641	1.37	0.88
	LTE 7	QPSK20M	Rear Face	21100	50	0	-	23.0	21.73	0.00	0.678	1.34	0.91
	LTE 7	QPSK20M	Rear Face	21350	100	0	-	23.0	21.75	-0.14	0.794	1.33	1.06
	LTE 7	QPSK20M	Rear Face	21350	1	0	-	24.0	22.64	0.01	0.852	1.37	1.17
	LTE 12	QPSK10M	Front Face	23130	1	0	-	24.0	23.58	0.01	0.242	1.10	0.27
39	LTE 12	QPSK10M	Rear Face	23130	1	0	-	24.0	23.58	0.01	0.513	1.10	**0.57**
	LTE 12	QPSK10M	Front Face	23130	25	0	-	23.0	22.68	-0.13	0.198	1.08	0.21
	LTE 12	QPSK10M	Rear Face	23130	25	0	-	23.0	22.68	0.03	0.419	1.08	0.45
	LTE 13	QPSK10M	Front Face	23230	1	0	-	24.0	23.19	0.01	0.256	1.21	0.31
40	LTE 13	QPSK10M	Rear Face	23230	1	0	-	24.0	23.19	0.08	0.398	1.21	**0.48**
	LTE 13	QPSK10M	Front Face	23230	25	0	-	23.0	22.29	0.03	0.205	1.18	0.24
	LTE 13	QPSK10M	Rear Face	23230	25	0	-	23.0	22.29	0.05	0.318	1.18	0.37
	LTE 14	QPSK10M	Front Face	23330	1	0	-	24.0	23.24	0.01	0.264	1.19	0.31
41	LTE 14	QPSK10M	Rear Face	23330	1	0	-	24.0	23.24	0.05	0.439	1.19	**0.52**
	LTE 14	QPSK10M	Front Face	23330	25	0	-	23.0	22.37	0.05	0.207	1.16	0.24
	LTE 14	QPSK10M	Rear Face	23330	25	0	-	23.0	22.37	0.00	0.343	1.16	0.40
	LTE 25	QPSK20M	Front Face	26590	1	0	-	24.2	23.76	0.01	0.562	1.11	0.62
	LTE 25	QPSK20M	Rear Face	26590	1	0	-	24.2	23.76	-0.11	0.999	1.11	1.11
	LTE 25	QPSK20M	Front Face	26590	50	0	-	23.2	22.82	0.00	0.533	1.09	0.58
	LTE 25	QPSK20M	Rear Face	26590	50	0	-	23.2	22.82	0.01	0.95	1.09	1.04
42	LTE 25	QPSK20M	Rear Face	26140	1	0	-	24.2	23.73	0.01	1.08	1.11	**1.20**
	LTE 25	QPSK20M	Rear Face	26365	1	0	-	24.2	23.65	0.00	0.997	1.14	1.13
	LTE 25	QPSK20M	Rear Face	26140	50	0	-	23.2	22.79	0.01	0.844	1.10	0.93
	LTE 25	QPSK20M	Rear Face	26365	50	0	-	23.2	22.71	-0.01	0.823	1.12	0.92
	LTE 25	QPSK20M	Rear Face	26590	100	0	-	23.2	22.83	0.06	0.785	1.09	0.85
	LTE 25	QPSK20M	Rear Face	26140	1	0	V	24.2	23.73	0.06	1.02	1.11	1.14
	LTE 25	QPSK20M	Rear Face	26140	1	0	-	24.2	23.73	0.06	1.06	1.11	1.18
	LTE 26	QPSK15M	Front Face	26865	1	0	-	24.5	23.99	0.02	0.324	1.12	0.36
43	LTE 26	QPSK15M	Rear Face	26865	1	0	-	24.5	23.99	-0.01	0.505	1.12	**0.57**
	LTE 26	QPSK15M	Front Face	26865	36	0	-	23.5	22.98	-0.01	0.26	1.13	0.29
	LTE 26	QPSK15M	Rear Face	26865	36	0	-	23.5	22.98	-0.05	0.386	1.13	0.44
	LTE 30	QPSK10M	Front Face	27710	1	0	-	24.0	23.67	0.01	0.339	1.08	0.37
26	LTE 30	QPSK10M	Rear Face	27710	1	0	-	24.0	23.67	-0.02	0.424	1.08	**0.46**
	LTE 30	QPSK10M	Front Face	27710	25	0	-	23.0	22.69	0.14	0.235	1.07	0.25
	LTE 30	QPSK10M	Rear Face	27710	25	0	-	23.0	22.69	0.05	0.328	1.07	0.35
	LTE 38	QPSK20M	Front Face	38150	1	0	-	24.0	22.97	0.03	0.17	1.27	0.22
45	LTE 38	QPSK20M	Rear Face	38150	1	0	-	24.0	22.97	0.02	0.446	1.27	**0.57**
	LTE 38	QPSK20M	Front Face	38150	50	0	-	23.0	22.07	0.00	0.164	1.24	0.20
	LTE 38	QPSK20M	Rear Face	38150	50	0	-	23.0	22.07	-0.08	0.43	1.24	0.53

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Earphone	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 40	QPSK10M	Front Face	38750	1	0	-	23.5	23.12	0.02	0.266	1.09	0.29
27	LTE 40	QPSK10M	Rear Face	38750	1	0	-	23.5	23.12	0.00	0.342	1.09	**0.37**
	LTE 40	QPSK10M	Front Face	38750	25	0	-	22.5	22.25	-0.01	0.161	1.06	0.17
	LTE 40	QPSK10M	Rear Face	38750	25	0	-	22.5	22.25	0.08	0.207	1.06	0.22
	LTE 41	QPSK20M	Front Face	41490	1	0	-	24.5	24.06	0.01	0.187	1.11	0.21
47	LTE 41	QPSK20M	Rear Face	41490	1	0	-	24.5	24.06	-0.06	0.467	1.11	**0.52**
	LTE 41	QPSK20M	Front Face	41490	50	0	-	23.5	23.33	0.01	0.18	1.04	0.19
	LTE 41	QPSK20M	Rear Face	41490	50	0	-	23.5	23.33	-0.17	0.452	1.04	0.47
	LTE 66	QPSK20M	Front Face	132572	1	0	-	24.2	23.61	0.01	0.678	1.15	0.78
48	LTE 66	QPSK20M	Rear Face	132572	1	0	-	24.2	23.61	-0.04	1.21	1.15	**1.39**
	LTE 66	QPSK20M	Front Face	132572	50	0	-	23.2	22.79	0.01	0.568	1.10	0.62
	LTE 66	QPSK20M	Rear Face	132572	50	0	-	23.2	22.79	-0.15	1.14	1.10	1.25
	LTE 66	QPSK20M	Rear Face	132072	1	0	-	24.2	23.54	0.01	0.997	1.16	1.16
	LTE 66	QPSK20M	Rear Face	132322	1	0	-	24.2	23.58	-0.14	1.18	1.15	1.36
	LTE 66	QPSK20M	Rear Face	132072	50	0	-	23.2	22.68	0.00	1.02	1.13	1.15
	LTE 66	QPSK20M	Rear Face	132322	50	0	-	23.2	22.72	0.11	0.997	1.12	1.11
	LTE 66	QPSK20M	Rear Face	132572	100	0	-	23.2	22.74	0.06	0.958	1.11	1.07
	LTE 66	QPSK20M	Rear Face	132572	1	0	V	24.2	23.61	-0.07	1.17	1.15	1.34
	LTE 66	QPSK20M	Rear Face	132322	1	0	V	24.2	23.58	0.01	1.11	1.15	1.28
	LTE 66	QPSK20M	Rear Face	132572	50	0	V	23.2	22.79	0.00	1.15	1.10	1.26
	LTE 66	QPSK20M	Rear Face	132572	1	0	-	24.2	23.61	0.01	1.18	1.15	1.35

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	802.11b	-	Front Face	1	18.0	17.76	0.03	0.12	1.06	0.13
55	802.11b	-	Rear Face	1	18.0	17.76	-0.09	0.143	1.06	**0.15**
	802.11n	HT20	Front Face	60	18.0	17.75	0.00	0.286	1.06	0.30
	802.11n	HT20	Rear Face	60	18.0	17.75	0.05	0.834	1.06	0.88
28	802.11n	HT20	Rear Face	64	18.0	17.65	0.05	0.828	1.08	**0.90**
	802.11n	HT20	Rear Face	60	18.0	17.75	0.10	0.829	1.06	0.88
	802.11n	HT40	Front Face	134	17.0	16.49	0.02	0.201	1.12	0.23
29	802.11n	HT40	Rear Face	134	17.0	16.49	-0.03	0.543	1.12	**0.61**
	802.11n	HT40	Front Face	151	17.5	17.26	0.03	0.162	1.06	0.17
57	802.11n	HT40	Rear Face	151	17.5	17.26	0.04	0.471	1.06	**0.50**
	BT	GFSK	Front Face	39	9.5	9.34	0.01	0.03	1.04	0.03
58	BT	GFSK	Rear Face	39	9.5	9.34	0.00	0.036	1.04	**0.04**

4.7.4 SAR Results for Hotspot Exposure Condition (Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	GSM850	GPRS12	Front Face	128	30.0	29.92	0.02	0.358	1.02	0.36
30	GSM850	GPRS12	Rear Face	128	30.0	29.92	0.02	0.577	1.02	**0.59**
	GSM850	GPRS12	Left Side	128	30.0	29.92	0.01	0.363	1.02	0.37
	GSM850	GPRS12	Right Side	128	30.0	29.92	-0.03	0.239	1.02	0.24
	GSM850	GPRS12	Bottom Side	128	30.0	29.92	0.01	0.122	1.02	0.12
	GSM1900	GPRS12	Front Face	512	27.8	26.79	0.02	0.284	1.26	0.36
31	GSM1900	GPRS12	Rear Face	512	27.8	26.79	-0.02	0.454	1.26	**0.57**
	GSM1900	GPRS12	Left Side	512	27.8	26.79	-0.06	0.042	1.26	0.05
	GSM1900	GPRS12	Right Side	512	27.8	26.79	0.12	0.351	1.26	0.44
	GSM1900	GPRS12	Bottom Side	512	27.8	26.79	0.10	0.404	1.26	0.51
	WCDMA II	RMC12.2K	Front Face	9538	25.0	24.45	0.10	0.727	1.14	0.83
32	WCDMA II	RMC12.2K	Rear Face	9538	25.0	24.45	-0.06	1.18	1.14	**1.34**
	WCDMA II	RMC12.2K	Left Side	9538	25.0	24.45	-0.03	0.107	1.14	0.12
	WCDMA II	RMC12.2K	Right Side	9538	25.0	24.45	0.04	0.914	1.14	1.04
	WCDMA II	RMC12.2K	Bottom Side	9538	25.0	24.45	0.12	1.05	1.14	1.19
	WCDMA II	RMC12.2K	Front Face	9262	25.0	24.31	0.06	0.661	1.17	0.77
	WCDMA II	RMC12.2K	Front Face	9400	25.0	24.29	0.01	0.715	1.18	0.84
	WCDMA II	RMC12.2K	Rear Face	9262	25.0	24.31	0.02	1.07	1.17	1.25
	WCDMA II	RMC12.2K	Rear Face	9400	25.0	24.29	-0.01	1.13	1.18	1.33
	WCDMA II	RMC12.2K	Right Side	9262	25.0	24.31	0.03	0.884	1.17	1.04
	WCDMA II	RMC12.2K	Right Side	9400	25.0	24.29	0.03	0.91	1.18	1.07
	WCDMA II	RMC12.2K	Bottom Side	9262	25.0	24.31	0.01	1.01	1.17	1.18
	WCDMA II	RMC12.2K	Bottom Side	9400	25.0	24.29	0.05	0.986	1.18	1.16
	WCDMA II	RMC12.2K	Rear Face	9538	25.0	24.45	0.01	1.16	1.14	1.32
	WCDMA IV	RMC12.2K	Front Face	1513	24.5	24.19	-0.01	0.689	1.07	0.74
33	WCDMA IV	RMC12.2K	Rear Face	1513	24.5	24.19	0.02	1.23	1.07	**1.32**
	WCDMA IV	RMC12.2K	Left Side	1513	24.5	24.19	0.03	0.145	1.07	0.16
	WCDMA IV	RMC12.2K	Right Side	1513	24.5	24.19	0.01	0.308	1.07	0.33
	WCDMA IV	RMC12.2K	Bottom Side	1513	24.5	24.19	0.08	1.01	1.07	1.08
	WCDMA IV	RMC12.2K	Rear Face	1312	24.5	24.13	0.01	1.09	1.09	1.19
	WCDMA IV	RMC12.2K	Rear Face	1413	24.5	24.08	-0.07	1.12	1.10	1.23
	WCDMA IV	RMC12.2K	Bottom Side	1312	24.5	24.13	0.01	1.05	1.09	1.14
	WCDMA IV	RMC12.2K	Bottom Side	1413	24.5	24.08	-0.03	1.03	1.10	1.13
	WCDMA IV	RMC12.2K	Rear Face	1513	24.5	24.19	0.09	1.21	1.07	1.30
	WCDMA V	RMC12.2K	Front Face	4132	25.0	24.54	0.01	0.389	1.11	0.43
34	WCDMA V	RMC12.2K	Rear Face	4132	25.0	24.54	0.05	0.609	1.11	**0.68**
	WCDMA V	RMC12.2K	Left Side	4132	25.0	24.54	-0.03	0.378	1.11	0.42
	WCDMA V	RMC12.2K	Right Side	4132	25.0	24.54	0.04	0.313	1.11	0.35
	WCDMA V	RMC12.2K	Bottom Side	4132	25.0	24.54	0.10	0.108	1.11	0.12

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 2	QPSK20M	Front Face	19100	1	0	24.2	23.84	0.01	0.624	1.09	0.68
	LTE 2	QPSK20M	Rear Face	19100	1	0	24.2	23.84	0.10	0.98	1.09	1.06
	LTE 2	QPSK20M	Left Side	19100	1	0	24.2	23.84	0.11	0.091	1.09	0.10
	LTE 2	QPSK20M	Right Side	19100	1	0	24.2	23.84	-0.03	0.77	1.09	0.84
	LTE 2	QPSK20M	Bottom Side	19100	1	0	24.2	23.84	0.02	0.887	1.09	0.96
	LTE 2	QPSK20M	Front Face	19100	50	0	23.2	22.97	0.01	0.5	1.05	0.53
	LTE 2	QPSK20M	Rear Face	19100	50	0	23.2	22.97	0.08	0.891	1.05	0.94
	LTE 2	QPSK20M	Left Side	19100	50	0	23.2	22.97	0.14	0.073	1.05	0.08
	LTE 2	QPSK20M	Right Side	19100	50	0	23.2	22.97	0.03	0.617	1.05	0.65
	LTE 2	QPSK20M	Bottom Side	19100	50	0	23.2	22.97	0.01	0.711	1.05	0.75
	LTE 2	QPSK20M	Rear Face	18700	1	0	24.2	23.64	0.00	0.957	1.14	1.09
35	LTE 2	QPSK20M	Rear Face	18900	1	0	24.2	23.75	0.06	0.982	1.11	**1.09**
	LTE 2	QPSK20M	Right Side	18700	1	0	24.2	23.64	0.02	0.746	1.14	0.85
	LTE 2	QPSK20M	Right Side	18900	1	0	24.2	23.75	0.05	0.767	1.11	0.85
	LTE 2	QPSK20M	Bottom Side	18700	1	0	24.2	23.64	0.08	0.846	1.14	0.96
	LTE 2	QPSK20M	Bottom Side	18900	1	0	24.2	23.75	-0.01	0.835	1.11	0.93
	LTE 2	QPSK20M	Rear Face	18700	50	0	23.2	22.77	-0.11	0.837	1.10	0.92
	LTE 2	QPSK20M	Rear Face	18900	50	0	23.2	22.88	0.06	0.817	1.08	0.88
	LTE 2	QPSK20M	Rear Face	19100	100	0	23.2	22.86	-0.11	0.885	1.08	0.96
	LTE 2	QPSK20M	Rear Face	18900	1	0	24.2	23.75	0.10	0.977	1.11	1.08
	LTE 4	QPSK20M	Front Face	20050	1	0	24.2	23.64	0.03	0.505	1.14	0.57
	LTE 4	QPSK20M	Rear Face	20050	1	0	24.2	23.64	-0.11	0.901	1.14	1.03
	LTE 4	QPSK20M	Left Side	20050	1	0	24.2	23.64	-0.01	0.107	1.14	0.12
	LTE 4	QPSK20M	Right Side	20050	1	0	24.2	23.64	0.00	0.405	1.14	0.46
	LTE 4	QPSK20M	Bottom Side	20050	1	0	24.2	23.64	0.02	0.737	1.14	0.84
	LTE 4	QPSK20M	Front Face	20050	50	0	23.2	22.74	0.14	0.423	1.11	0.47
	LTE 4	QPSK20M	Rear Face	20050	50	0	23.2	22.74	0.01	0.854	1.11	0.95
	LTE 4	QPSK20M	Left Side	20050	50	0	23.2	22.74	0.02	0.089	1.11	0.10
	LTE 4	QPSK20M	Right Side	20050	50	0	23.2	22.74	0.03	0.339	1.11	0.38
	LTE 4	QPSK20M	Bottom Side	20050	50	0	23.2	22.74	0.01	0.618	1.11	0.69
	LTE 4	QPSK20M	Rear Face	20175	1	0	24.2	23.55	0.00	0.991	1.16	1.15
36	LTE 4	QPSK20M	Rear Face	20300	1	0	24.2	23.53	0.07	1.01	1.17	**1.18**
	LTE 4	QPSK20M	Bottom Side	20175	1	0	24.2	23.55	-0.10	0.766	1.16	0.89
	LTE 4	QPSK20M	Bottom Side	20300	1	0	24.2	23.53	0.01	0.756	1.17	0.88
	LTE 4	QPSK20M	Rear Face	20175	50	0	23.2	22.65	0.10	0.758	1.14	0.86
	LTE 4	QPSK20M	Rear Face	20300	50	0	23.2	22.63	0.05	0.74	1.14	0.84
	LTE 4	QPSK20M	Rear Face	20050	100	0	23.2	22.63	0.01	0.872	1.14	0.99
	LTE 4	QPSK20M	Rear Face	20300	1	0	24.2	23.53	0.12	0.982	1.17	1.15
	LTE 5	QPSK10M	Front Face	20600	1	0	24.0	22.99	0.11	0.263	1.26	0.33
37	LTE 5	QPSK10M	Rear Face	20600	1	0	24.0	22.99	0.09	0.416	1.26	**0.52**
	LTE 5	QPSK10M	Left Side	20600	1	0	24.0	22.99	0.01	0.296	1.26	0.37
	LTE 5	QPSK10M	Right Side	20600	1	0	24.0	22.99	-0.01	0.193	1.26	0.24
	LTE 5	QPSK10M	Bottom Side	20600	1	0	24.0	22.99	0.03	0.092	1.26	0.12
	LTE 5	QPSK10M	Front Face	20600	25	0	23.0	22.08	0.18	0.211	1.24	0.26
	LTE 5	QPSK10M	Rear Face	20600	25	0	23.0	22.08	0.07	0.333	1.24	0.41
	LTE 5	QPSK10M	Left Side	20600	25	0	23.0	22.08	0.01	0.237	1.24	0.29
	LTE 5	QPSK10M	Right Side	20600	25	0	23.0	22.08	0.10	0.155	1.24	0.19
	LTE 5	QPSK10M	Bottom Side	20600	25	0	23.0	22.08	0.01	0.074	1.24	0.09

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 7	QPSK20M	Front Face	21350	1	0	24.0	22.64	0.10	0.259	1.37	0.35
	LTE 7	QPSK20M	Rear Face	21350	1	0	24.0	22.64	0.02	0.832	1.37	1.14
	LTE 7	QPSK20M	Left Side	21350	1	0	24.0	22.64	0.01	0.284	1.37	0.39
	LTE 7	QPSK20M	Right Side	21350	1	0	24.0	22.64	0.00	0.083	1.37	0.11
	LTE 7	QPSK20M	Bottom Side	21350	1	0	24.0	22.64	-0.02	0.608	1.37	0.83
	LTE 7	QPSK20M	Front Face	21350	50	0	23.0	21.76	0.01	0.21	1.33	0.28
	LTE 7	QPSK20M	Rear Face	21350	50	0	23.0	21.76	0.11	0.699	1.33	0.93
	LTE 7	QPSK20M	Left Side	21350	50	0	23.0	21.76	0.04	0.231	1.33	0.31
	LTE 7	QPSK20M	Right Side	21350	50	0	23.0	21.76	-0.03	0.068	1.33	0.09
	LTE 7	QPSK20M	Bottom Side	21350	50	0	23.0	21.76	0.01	0.494	1.33	0.66
	LTE 7	QPSK20M	Rear Face	20850	1	0	24.0	22.52	0.00	0.789	1.41	1.11
38	LTE 7	QPSK20M	Rear Face	21100	1	0	24.0	22.61	0.08	0.861	1.38	**1.19**
	LTE 7	QPSK20M	Bottom Side	20850	1	0	24.0	22.52	0.08	0.558	1.41	0.78
	LTE 7	QPSK20M	Bottom Side	21100	1	0	24.0	22.61	0.06	0.59	1.38	0.81
	LTE 7	QPSK20M	Rear Face	20850	50	0	23.0	21.64	-0.01	0.641	1.37	0.88
	LTE 7	QPSK20M	Rear Face	21100	50	0	23.0	21.73	0.00	0.678	1.34	0.91
	LTE 7	QPSK20M	Rear Face	21350	100	0	23.0	21.75	-0.14	0.794	1.33	1.06
	LTE 7	QPSK20M	Rear Face	21350	1	0	24.0	22.64	0.01	0.852	1.37	1.17
	LTE 12	QPSK10M	Front Face	23130	1	0	24.0	23.58	0.01	0.242	1.10	0.27
39	LTE 12	QPSK10M	Rear Face	23130	1	0	24.0	23.58	0.01	0.513	1.10	**0.57**
	LTE 12	QPSK10M	Left Side	23130	1	0	24.0	23.58	0.00	0.286	1.10	0.32
	LTE 12	QPSK10M	Right Side	23130	1	0	24.0	23.58	0.10	0.244	1.10	0.27
	LTE 12	QPSK10M	Bottom Side	23130	1	0	24.0	23.58	0.16	0.036	1.10	0.04
	LTE 12	QPSK10M	Front Face	23130	25	0	23.0	22.68	-0.13	0.198	1.08	0.21
	LTE 12	QPSK10M	Rear Face	23130	25	0	23.0	22.68	0.03	0.419	1.08	0.45
	LTE 12	QPSK10M	Left Side	23130	25	0	23.0	22.68	0.04	0.233	1.08	0.25
	LTE 12	QPSK10M	Right Side	23130	25	0	23.0	22.68	0.08	0.199	1.08	0.21
	LTE 12	QPSK10M	Bottom Side	23130	25	0	23.0	22.68	0.01	0.029	1.08	0.03
	LTE 13	QPSK10M	Front Face	23230	1	0	24.0	23.19	0.01	0.256	1.21	0.31
40	LTE 13	QPSK10M	Rear Face	23230	1	0	24.0	23.19	0.08	0.398	1.21	**0.48**
	LTE 13	QPSK10M	Left Side	23230	1	0	24.0	23.19	-0.11	0.259	1.21	0.31
	LTE 13	QPSK10M	Right Side	23230	1	0	24.0	23.19	0.01	0.196	1.21	0.24
	LTE 13	QPSK10M	Bottom Side	23230	1	0	24.0	23.19	0.00	0.056	1.21	0.07
	LTE 13	QPSK10M	Front Face	23230	25	0	23.0	22.29	0.03	0.205	1.18	0.24
	LTE 13	QPSK10M	Rear Face	23230	25	0	23.0	22.29	0.05	0.318	1.18	0.37
	LTE 13	QPSK10M	Left Side	23230	25	0	23.0	22.29	0.17	0.207	1.18	0.24
	LTE 13	QPSK10M	Right Side	23230	25	0	23.0	22.29	0.04	0.157	1.18	0.18
	LTE 13	QPSK10M	Bottom Side	23230	25	0	23.0	22.29	0.01	0.045	1.18	0.05
	LTE 14	QPSK10M	Front Face	23330	1	0	24.0	23.24	0.01	0.264	1.19	0.31
41	LTE 14	QPSK10M	Rear Face	23330	1	0	24.0	23.24	0.05	0.439	1.19	**0.52**
	LTE 14	QPSK10M	Left Side	23330	1	0	24.0	23.24	-0.01	0.272	1.19	0.32
	LTE 14	QPSK10M	Right Side	23330	1	0	24.0	23.24	-0.12	0.22	1.19	0.26
	LTE 14	QPSK10M	Bottom Side	23330	1	0	24.0	23.24	0.03	0.061	1.19	0.07
	LTE 14	QPSK10M	Front Face	23330	25	0	23.0	22.37	0.05	0.207	1.16	0.24
	LTE 14	QPSK10M	Rear Face	23330	25	0	23.0	22.37	0.00	0.343	1.16	0.40
	LTE 14	QPSK10M	Left Side	23330	25	0	23.0	22.37	0.04	0.213	1.16	0.25
	LTE 14	QPSK10M	Right Side	23330	25	0	23.0	22.37	0.10	0.172	1.16	0.20
	LTE 14	QPSK10M	Bottom Side	23330	25	0	23.0	22.37	0.01	0.048	1.16	0.06

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 25	QPSK20M	Front Face	26590	1	0	24.2	23.76	0.01	0.562	1.11	0.62
	LTE 25	QPSK20M	Rear Face	26590	1	0	24.2	23.76	-0.11	0.999	1.11	1.11
	LTE 25	QPSK20M	Left Side	26590	1	0	24.2	23.76	0.10	0.119	1.11	0.13
	LTE 25	QPSK20M	Right Side	26590	1	0	24.2	23.76	0.03	0.45	1.11	0.50
	LTE 25	QPSK20M	Bottom Side	26590	1	0	24.2	23.76	0.05	0.819	1.11	0.91
	LTE 25	QPSK20M	Front Face	26590	50	0	23.2	22.82	0.00	0.533	1.09	0.58
	LTE 25	QPSK20M	Rear Face	26590	50	0	23.2	22.82	0.01	0.95	1.09	1.04
	LTE 25	QPSK20M	Left Side	26590	50	0	23.2	22.82	0.02	0.113	1.09	0.12
	LTE 25	QPSK20M	Right Side	26590	50	0	23.2	22.82	-0.14	0.427	1.09	0.47
	LTE 25	QPSK20M	Bottom Side	26590	50	0	23.2	22.82	0.05	0.713	1.09	0.78
42	LTE 25	QPSK20M	Rear Face	26140	1	0	24.2	23.73	0.01	1.08	1.11	**1.20**
	LTE 25	QPSK20M	Rear Face	26365	1	0	24.2	23.65	0.00	0.997	1.14	1.13
	LTE 25	QPSK20M	Bottom Side	26140	1	0	24.2	23.73	0.00	0.852	1.11	0.95
	LTE 25	QPSK20M	Bottom Side	26365	1	0	24.2	23.65	0.04	0.842	1.14	0.96
	LTE 25	QPSK20M	Rear Face	26140	50	0	23.2	22.79	0.01	0.844	1.10	0.93
	LTE 25	QPSK20M	Rear Face	26365	50	0	23.2	22.71	-0.01	0.823	1.12	0.92
	LTE 25	QPSK20M	Bottom Side	26140	50	0	23.2	22.79	0.17	0.633	1.10	0.70
	LTE 25	QPSK20M	Bottom Side	26365	50	0	23.2	22.71	0.05	0.618	1.12	0.69
	LTE 25	QPSK20M	Rear Face	26590	100	0	23.2	22.83	0.06	0.785	1.09	0.85
	LTE 25	QPSK20M	Rear Face	26140	1	0	24.2	23.73	0.06	1.06	1.11	1.18
	LTE 26	QPSK15M	Front Face	26865	1	0	24.5	23.99	0.02	0.324	1.12	0.36
43	LTE 26	QPSK15M	Rear Face	26865	1	0	24.5	23.99	-0.01	0.505	1.12	**0.57**
	LTE 26	QPSK15M	Left Side	26865	1	0	24.5	23.99	0.07	0.352	1.12	0.40
	LTE 26	QPSK15M	Right Side	26865	1	0	24.5	23.99	0.18	0.241	1.12	0.27
	LTE 26	QPSK15M	Bottom Side	26865	1	0	24.5	23.99	0.06	0.104	1.12	0.12
	LTE 26	QPSK15M	Front Face	26865	36	0	23.5	22.98	-0.01	0.26	1.13	0.29
	LTE 26	QPSK15M	Rear Face	26865	36	0	23.5	22.98	-0.05	0.386	1.13	0.44
	LTE 26	QPSK15M	Left Side	26865	36	0	23.5	22.98	0.05	0.284	1.13	0.32
	LTE 26	QPSK15M	Right Side	26865	36	0	23.5	22.98	0.00	0.194	1.13	0.22
	LTE 26	QPSK15M	Bottom Side	26865	36	0	23.5	22.98	0.00	0.083	1.13	0.09
	LTE 30	QPSK10M	Front Face	27710	1	0	24.0	23.67	0.01	0.339	1.08	0.37
	LTE 30	QPSK10M	Rear Face	27710	1	0	24.0	23.67	-0.02	0.424	1.08	0.46
	LTE 30	QPSK10M	Left Side	27710	1	0	24.0	23.67	0.03	0.291	1.08	0.31
	LTE 30	QPSK10M	Right Side	27710	1	0	24.0	23.67	-0.01	0.042	1.08	0.05
44	LTE 30	QPSK10M	Bottom Side	27710	1	0	24.0	23.67	-0.05	0.582	1.08	**0.63**
	LTE 30	QPSK10M	Front Face	27710	25	0	23.0	22.69	0.14	0.235	1.07	0.25
	LTE 30	QPSK10M	Rear Face	27710	25	0	23.0	22.69	0.05	0.328	1.07	0.35
	LTE 30	QPSK10M	Left Side	27710	25	0	23.0	22.69	0.13	0.187	1.07	0.20
	LTE 30	QPSK10M	Right Side	27710	25	0	23.0	22.69	0.01	0.026	1.07	0.03
	LTE 30	QPSK10M	Bottom Side	27710	25	0	23.0	22.69	0.00	0.322	1.07	0.35
	LTE 38	QPSK20M	Front Face	38150	1	0	24.0	22.97	0.03	0.17	1.27	0.22
45	LTE 38	QPSK20M	Rear Face	38150	1	0	24.0	22.97	0.02	0.446	1.27	**0.57**
	LTE 38	QPSK20M	Left Side	38150	1	0	24.0	22.97	0.01	0.145	1.27	0.18
	LTE 38	QPSK20M	Right Side	38150	1	0	24.0	22.97	0.02	0.043	1.27	0.05
	LTE 38	QPSK20M	Bottom Side	38150	1	0	24.0	22.97	0.05	0.366	1.27	0.46
	LTE 38	QPSK20M	Front Face	38150	50	0	23.0	22.07	0.00	0.164	1.24	0.20
	LTE 38	QPSK20M	Rear Face	38150	50	0	23.0	22.07	-0.08	0.43	1.24	0.53
	LTE 38	QPSK20M	Left Side	38150	50	0	23.0	22.07	0.07	0.139	1.24	0.17
	LTE 38	QPSK20M	Right Side	38150	50	0	23.0	22.07	0.14	0.042	1.24	0.05
	LTE 38	QPSK20M	Bottom Side	38150	50	0	23.0	22.07	0.00	0.351	1.24	0.43

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 40	QPSK10M	Front Face	38750	1	0	23.5	23.12	0.02	0.266	1.09	0.29
	LTE 40	QPSK10M	Rear Face	38750	1	0	23.5	23.12	0.00	0.342	1.09	0.37
	LTE 40	QPSK10M	Left Side	38750	1	0	23.5	23.12	0.14	0.228	1.09	0.25
	LTE 40	QPSK10M	Right Side	38750	1	0	23.5	23.12	0.05	0.033	1.09	0.04
46	LTE 40	QPSK10M	Bottom Side	38750	1	0	23.5	23.12	0.01	0.455	1.09	**0.50**
	LTE 40	QPSK10M	Front Face	38750	25	0	22.5	22.25	-0.01	0.161	1.06	0.17
	LTE 40	QPSK10M	Rear Face	38750	25	0	22.5	22.25	0.08	0.207	1.06	0.22
	LTE 40	QPSK10M	Left Side	38750	25	0	22.5	22.25	-0.07	0.138	1.06	0.15
	LTE 40	QPSK10M	Right Side	38750	25	0	22.5	22.25	0.03	0.019	1.06	0.02
	LTE 40	QPSK10M	Bottom Side	38750	25	0	22.5	22.25	0.08	0.261	1.06	0.28
	LTE 41	QPSK20M	Front Face	41490	1	0	24.5	24.06	0.01	0.187	1.11	0.21
47	LTE 41	QPSK20M	Rear Face	41490	1	0	24.5	24.06	-0.06	0.467	1.11	**0.52**
	LTE 41	QPSK20M	Left Side	41490	1	0	24.5	24.06	-0.02	0.159	1.11	0.18
	LTE 41	QPSK20M	Right Side	41490	1	0	24.5	24.06	-0.08	0.047	1.11	0.05
	LTE 41	QPSK20M	Bottom Side	41490	1	0	24.5	24.06	0.00	0.401	1.11	0.44
	LTE 41	QPSK20M	Front Face	41490	50	0	23.5	23.33	0.01	0.18	1.04	0.19
	LTE 41	QPSK20M	Rear Face	41490	50	0	23.5	23.33	-0.17	0.452	1.04	0.47
	LTE 41	QPSK20M	Left Side	41490	50	0	23.5	23.33	0.05	0.153	1.04	0.16
	LTE 41	QPSK20M	Right Side	41490	50	0	23.5	23.33	0.03	0.046	1.04	0.05
	LTE 41	QPSK20M	Bottom Side	41490	50	0	23.5	23.33	0.15	0.386	1.04	0.40
	LTE 66	QPSK20M	Front Face	132572	1	0	24.2	23.61	0.01	0.678	1.15	0.78
48	LTE 66	QPSK20M	Rear Face	132572	1	0	24.2	23.61	-0.04	1.21	1.15	**1.39**
	LTE 66	QPSK20M	Left Side	132572	1	0	24.2	23.61	-0.02	0.143	1.15	0.16
	LTE 66	QPSK20M	Right Side	132572	1	0	24.2	23.61	0.03	0.544	1.15	0.62
	LTE 66	QPSK20M	Bottom Side	132572	1	0	24.2	23.61	0.17	0.987	1.15	1.13
	LTE 66	QPSK20M	Front Face	132572	50	0	23.2	22.79	0.01	0.568	1.10	0.62
	LTE 66	QPSK20M	Rear Face	132572	50	0	23.2	22.79	-0.15	1.14	1.10	1.25
	LTE 66	QPSK20M	Left Side	132572	50	0	23.2	22.79	0.05	0.136	1.10	0.15
	LTE 66	QPSK20M	Right Side	132572	50	0	23.2	22.79	0.06	0.516	1.10	0.57
	LTE 66	QPSK20M	Bottom Side	132572	50	0	23.2	22.79	0.05	0.936	1.10	1.03
	LTE 66	QPSK20M	Rear Face	132072	1	0	24.2	23.54	0.01	0.997	1.16	1.16
	LTE 66	QPSK20M	Rear Face	132322	1	0	24.2	23.58	-0.14	1.18	1.15	1.36
	LTE 66	QPSK20M	Bottom Side	132072	1	0	24.2	23.54	0.01	1.03	1.16	1.20
	LTE 66	QPSK20M	Bottom Side	132322	1	0	24.2	23.58	0.10	1.02	1.15	1.18
	LTE 66	QPSK20M	Rear Face	132072	50	0	23.2	22.68	0.00	1.02	1.13	1.15
	LTE 66	QPSK20M	Rear Face	132322	50	0	23.2	22.72	0.11	0.997	1.12	1.11
	LTE 66	QPSK20M	Bottom Side	132072	50	0	23.2	22.68	0.03	0.963	1.13	1.09
	LTE 66	QPSK20M	Bottom Side	132322	50	0	23.2	22.72	-0.05	0.945	1.12	1.06
	LTE 66	QPSK20M	Rear Face	132572	100	0	23.2	22.74	0.06	0.958	1.11	1.07
	LTE 66	QPSK20M	Rear Face	132572	1	0	24.2	23.61	0.01	1.18	1.15	1.35

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	802.11b	-	Front Face	1	18.0	17.76	0.03	0.12	1.06	0.13
49	802.11b	-	Rear Face	1	18.0	17.76	-0.09	0.143	1.06	**0.15**
	802.11b	-	Left Side	1	18.0	17.76	-0.01	0.095	1.06	0.10
	802.11b	-	Right Side	1	18.0	17.76	0.02	0.034	1.06	0.04
	802.11b	-	Top Side	1	18.0	17.76	0.03	0.109	1.06	0.12
	802.11a	-	Front Face	48	17.0	16.57	0.02	0.262	1.10	0.29
50	802.11a	-	Rear Face	48	17.0	16.57	0.02	0.765	1.10	**0.84**
	802.11a	-	Left Side	48	17.0	16.57	-0.01	0.196	1.10	0.22
	802.11a	-	Right Side	48	17.0	16.57	0.08	0.046	1.10	0.05
	802.11a	-	Top Side	48	17.0	16.57	0.04	0.423	1.10	0.47
	802.11a	-	Rear Face	40	17.0	16.39	0.09	0.666	1.15	0.77
	802.11n	HT40	Front Face	151	17.5	17.26	0.03	0.162	1.06	0.17
51	802.11n	HT40	Rear Face	151	17.5	17.26	0.04	0.471	1.06	**0.50**
	802.11n	HT40	Left Side	151	17.5	17.26	0.01	0.121	1.06	0.13
	802.11n	HT40	Right Side	151	17.5	17.26	0.02	0.028	1.06	0.03
	802.11n	HT40	Top Side	151	17.5	17.26	-0.01	0.261	1.06	0.28
	BT	GFSK	Front Face	39	9.5	9.34	0.03	0.032	1.04	0.03
52	BT	GFSK	Rear Face	39	9.5	9.34	0.02	0.039	1.04	**0.04**
	BT	GFSK	Left Side	39	9.5	9.34	0.01	0.025	1.04	0.03
	BT	GFSK	Right Side	39	9.5	9.34	-0.02	0.008	1.04	0.01
	BT	GFSK	Top Side	39	9.5	9.34	0.00	0.028	1.04	0.03

4.7.5 SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-10g (W/kg)
53	WCDMA II	RMC12.2K	Rear Face	9538	25.0	24.45	-0.02	3.15	1.14	**3.58**
	WCDMA II	RMC12.2K	Rear Face	9262	25.0	24.31	0.03	3.03	1.17	3.55
	WCDMA II	RMC12.2K	Rear Face	9400	25.0	24.29	-0.01	2.97	1.18	3.50
	WCDMA II	RMC12.2K	Rear Face	9538	25.0	24.45	0.02	3.13	1.14	3.55
54	WCDMA IV	RMC12.2K	Rear Face	1513	24.5	24.19	-0.01	2.85	1.07	**3.06**
	WCDMA IV	RMC12.2K	Rear Face	1312	24.5	24.13	0.00	2.75	1.09	2.99
	WCDMA IV	RMC12.2K	Rear Face	1413	24.5	24.08	-0.07	2.73	1.10	3.01
	WCDMA IV	RMC12.2K	Rear Face	1513	24.5	24.19	0.01	2.82	1.07	3.03

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-10g (W/kg)
55	LTE 4	QPSK20M	Rear Face	20050	1	0	24.2	23.64	-0.05	2.76	1.14	**3.14**
	LTE 4	QPSK20M	Rear Face	20175	1	0	24.2	23.55	-0.09	2.59	1.16	3.01
	LTE 4	QPSK20M	Rear Face	20300	1	0	24.2	23.53	-0.11	2.61	1.17	3.05
	LTE 4	QPSK20M	Rear Face	20050	50	0	23.2	22.74	-0.02	2.17	1.11	2.41
	LTE 4	QPSK20M	Rear Face	20175	50	0	23.2	22.65	0.01	2.05	1.14	2.33
	LTE 4	QPSK20M	Rear Face	20300	50	0	23.2	22.63	0.02	2.06	1.14	2.35
	LTE 4	QPSK20M	Rear Face	20050	100	0	23.2	22.63	0.01	2.19	1.14	2.50
	LTE 4	QPSK20M	Rear Face	20050	1	0	24.2	23.64	0.00	2.73	1.14	3.11
	LTE 7	QPSK20M	Rear Face	21350	1	0	24.0	22.64	-0.02	0.798	1.37	1.09
56	LTE 7	QPSK20M	Rear Face	20850	1	0	24.0	22.52	-0.01	0.811	1.41	**1.14**
	LTE 7	QPSK20M	Rear Face	21100	1	0	24.0	22.61	0.01	0.756	1.38	1.04
	LTE 7	QPSK20M	Rear Face	21350	50	0	23.0	21.76	0.02	0.649	1.33	0.86
	LTE 7	QPSK20M	Rear Face	20850	50	0	23.0	21.64	0.10	0.659	1.37	0.90
	LTE 7	QPSK20M	Rear Face	21100	50	0	23.0	21.73	0.01	0.615	1.34	0.82
57	LTE 25	QPSK20M	Rear Face	26590	1	0	24.2	23.76	0.01	2.94	1.11	**3.25**
	LTE 25	QPSK20M	Rear Face	26140	1	0	24.2	23.73	0.01	2.84	1.11	3.16
	LTE 25	QPSK20M	Rear Face	26365	1	0	24.2	23.65	0.03	2.82	1.14	3.20
	LTE 25	QPSK20M	Rear Face	26590	50	0	23.2	22.82	-0.02	2.42	1.09	2.64
	LTE 25	QPSK20M	Rear Face	26140	50	0	23.2	22.79	0.01	2.33	1.10	2.56
	LTE 25	QPSK20M	Rear Face	26365	50	0	23.2	22.71	-0.01	2.32	1.12	2.60
	LTE 25	QPSK20M	Rear Face	26590	100	0	23.2	22.83	0.01	2.32	1.09	2.53
	LTE 25	QPSK20M	Rear Face	26590	1	0	24.2	23.76	0.00	2.92	1.11	3.23
	LTE 66	QPSK20M	Rear Face	132572	1	0	24.2	23.61	0.02	2.81	1.15	3.22
	LTE 66	QPSK20M	Rear Face	132072	1	0	24.2	23.54	0.01	2.71	1.16	3.15
58	LTE 66	QPSK20M	Rear Face	132322	1	0	24.2	23.58	-0.01	2.83	1.15	**3.26**
	LTE 66	QPSK20M	Rear Face	132572	50	0	23.2	22.79	-0.06	2.27	1.10	2.49
	LTE 66	QPSK20M	Rear Face	132072	50	0	23.2	22.68	-0.05	2.19	1.13	2.47
	LTE 66	QPSK20M	Rear Face	132322	50	0	23.2	22.72	-0.02	2.29	1.12	2.56
	LTE 66	QPSK20M	Rear Face	132572	100	0	23.2	22.74	0.00	2.56	1.11	2.85
	LTE 66	QPSK20M	Rear Face	132322	1	0	24.2	23.58	0.00	2.76	1.15	3.18

Plot No.	Band	Mode	Test Position	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-10g (W/kg)
	802.11n	HT20	Front Face	60	18.0	17.75	-0.03	0.371	1.06	0.39
59	802.11n	HT20	Rear Face	60	18.0	17.75	-0.02	1.12	1.06	**1.19**
	802.11n	HT20	Left Side	60	18.0	17.75	0.01	0.282	1.06	0.30
	802.11n	HT20	Right Side	60	18.0	17.75	0.03	0.078	1.06	0.08
	802.11n	HT20	Top Side	60	18.0	17.75	0.00	0.639	1.06	0.68
	802.11n	HT40	Front Face	134	17.0	16.49	-0.05	0.26	1.12	0.29
60	802.11n	HT40	Rear Face	134	17.0	16.49	0.01	0.786	1.12	**0.88**
	802.11n	HT40	Left Side	134	17.0	16.49	-0.03	0.198	1.12	0.22
	802.11n	HT40	Right Side	134	17.0	16.49	-0.02	0.055	1.12	0.06
	802.11n	HT40	Top Side	134	17.0	16.49	0.01	0.449	1.12	0.50

4.7.6 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	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
WCDMA II	RMC12.2K	Rear Face	9538	1.18	1.16	1.02	N/A	N/A	N/A	N/A
WCDMA IV	RMC12.2K	Rear Face	1513	1.23	1.21	1.02	N/A	N/A	N/A	N/A
LTE 2	QPSK20M	Rear Face	18900	0.982	0.977	1.01	N/A	N/A	N/A	N/A
LTE 4	QPSK20M	Rear Face	20300	1.01	0.982	1.03	N/A	N/A	N/A	N/A
LTE 4	QPSK20M	Rear Face	20050	2.76	2.73	1.01	N/A	N/A	N/A	N/A
LTE 7	QPSK20M	Rear Face	21350	0.861	0.852	1.01	N/A	N/A	N/A	N/A
LTE 25	QPSK20M	Rear Face	26140	1.08	1.06	1.02	N/A	N/A	N/A	N/A
LTE 25	QPSK20M	Rear Face	26590	2.94	2.92	1.01	N/A	N/A	N/A	N/A
LTE 66	QPSK20M	Rear Face	132572	1.21	1.18	1.03	N/A	N/A	N/A	N/A
LTE 66	QPSK20M	Rear Face	132322	2.83	2.76	1.03	N/A	N/A	N/A	N/A
802.11n	HT20	Rear Face	60	0.834	0.829	1.01	N/A	N/A	N/A	N/A
802.11a	-	Right Cheek	48	1.12	1.1	1.02	N/A	N/A	N/A	N/A
802.11n	HT20	Right Cheek	60	1.29	1.27	1.02	N/A	N/A	N/A	N/A
802.11n	HT40	Right Cheek	134	1.14	1.13	1.01	N/A	N/A	N/A	N/A
802.11n	HT40	Right Cheek	151	1.27	1.26	1.01	N/A	N/A	N/A	N/A

4.7.7 Simultaneous Multi-band Transmission Evaluation

<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)	Head	Right Cheek	0.33	0.66	0.99	∑SAR < 1.6, Not required
			Right Tilted	0.17	0.46	0.63	∑SAR < 1.6, Not required
			Left Cheek	0.37	0.34	0.71	∑SAR < 1.6, Not required
			Left Tilted	0.18	0.26	0.44	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.13	0.49	∑SAR < 1.6, Not required
			Rear Face	0.59	0.15	0.74	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.13	0.49	∑SAR < 1.6, Not required
			Rear Face	0.59	0.15	0.74	∑SAR < 1.6, Not required
			Left Side	0.37	0.10	0.47	∑SAR < 1.6, Not required
			Right Side	0.24	0.04	0.28	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required
2	GSM850 + WLAN (NII)	Head	Right Cheek	0.33	1.37	1.70	**Analyzed as below**
			Right Tilted	0.17	1.10	1.27	∑SAR < 1.6, Not required
			Left Cheek	0.37	1.02	1.39	∑SAR < 1.6, Not required
			Left Tilted	0.18	1.00	1.18	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.30	0.66	∑SAR < 1.6, Not required
			Rear Face	0.59	0.90	1.49	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.29	0.65	∑SAR < 1.6, Not required
			Rear Face	0.59	0.84	1.43	∑SAR < 1.6, Not required
			Left Side	0.37	0.22	0.59	∑SAR < 1.6, Not required
			Right Side	0.24	0.05	0.29	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
3	GSM850 + BT (DSS)	Head	Right Cheek	0.33	0.06	0.39	∑SAR < 1.6, Not required
			Right Tilted	0.17	0.04	0.21	∑SAR < 1.6, Not required
			Left Cheek	0.37	0.03	0.40	∑SAR < 1.6, Not required
			Left Tilted	0.18	0.02	0.20	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.03	0.39	∑SAR < 1.6, Not required
			Rear Face	0.59	0.04	0.63	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.03	0.39	∑SAR < 1.6, Not required
			Rear Face	0.59	0.04	0.63	∑SAR < 1.6, Not required
			Left Side	0.37	0.03	0.40	∑SAR < 1.6, Not required
			Right Side	0.24	0.01	0.25	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
4	GSM1900 + WLAN (DTS)	Head	Right Cheek	0.34	0.66	1.00	∑SAR < 1.6, Not required
			Right Tilted	0.10	0.46	0.56	∑SAR < 1.6, Not required
			Left Cheek	0.19	0.34	0.53	∑SAR < 1.6, Not required
			Left Tilted	0.08	0.26	0.34	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.13	0.49	∑SAR < 1.6, Not required
			Rear Face	0.57	0.15	0.72	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.13	0.49	∑SAR < 1.6, Not required
			Rear Face	0.57	0.15	0.72	∑SAR < 1.6, Not required
			Left Side	0.05	0.10	0.15	∑SAR < 1.6, Not required
			Right Side	0.44	0.04	0.48	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.51	0.00	0.51	∑SAR < 1.6, Not required
5	GSM1900 + WLAN (NII)	Head	Right Cheek	0.34	1.37	1.71	**Analyzed as below**
			Right Tilted	0.10	1.10	1.20	∑SAR < 1.6, Not required
			Left Cheek	0.19	1.02	1.21	∑SAR < 1.6, Not required
			Left Tilted	0.08	1.00	1.08	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.30	0.66	∑SAR < 1.6, Not required
			Rear Face	0.57	0.90	1.47	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.29	0.65	∑SAR < 1.6, Not required

			Rear Face	0.57	0.84	1.41	∑SAR < 1.6, Not required
			Left Side	0.05	0.22	0.27	∑SAR < 1.6, Not required
			Right Side	0.44	0.05	0.49	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.51	0.00	0.51	∑SAR < 1.6, Not required
6	GSM1900 + BT (DSS)	Head	Right Cheek	0.34	0.06	0.40	∑SAR < 1.6, Not required
			Right Tilted	0.10	0.04	0.14	∑SAR < 1.6, Not required
			Left Cheek	0.19	0.03	0.22	∑SAR < 1.6, Not required
			Left Tilted	0.08	0.02	0.10	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.03	0.39	∑SAR < 1.6, Not required
			Rear Face	0.57	0.04	0.61	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.03	0.39	∑SAR < 1.6, Not required
			Rear Face	0.57	0.04	0.61	∑SAR < 1.6, Not required
			Left Side	0.05	0.03	0.08	∑SAR < 1.6, Not required
			Right Side	0.44	0.01	0.45	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.51	0.00	0.51	∑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)	Head	Right Cheek	0.68	0.66	1.34	∑SAR < 1.6, Not required
			Right Tilted	0.20	0.46	0.66	∑SAR < 1.6, Not required
			Left Cheek	0.38	0.34	0.72	∑SAR < 1.6, Not required
			Left Tilted	0.16	0.26	0.42	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.84	0.13	0.97	∑SAR < 1.6, Not required
			Rear Face	1.34	0.15	1.49	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.84	0.13	0.97	∑SAR < 1.6, Not required
			Rear Face	1.34	0.15	1.49	∑SAR < 1.6, Not required
			Left Side	0.12	0.10	0.22	∑SAR < 1.6, Not required
			Right Side	1.07	0.04	1.11	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	1.19	0.00	1.19	∑SAR < 1.6, Not required
8	WCDMA II + WLAN (NII)	Head	Right Cheek	0.68	1.37	2.05	**Analyzed as below**
			Right Tilted	0.20	1.10	1.30	∑SAR < 1.6, Not required
			Left Cheek	0.38	1.02	1.40	∑SAR < 1.6, Not required
			Left Tilted	0.16	1.00	1.16	∑SAR < 1.6, Not required

		Body-Worn	Front Face	0.84	0.30	1.14	∑SAR < 1.6, Not required
			Rear Face	1.34	0.90	2.24	**Analyzed as below**
		Hotspot	Front Face	0.84	0.29	1.13	∑SAR < 1.6, Not required
			Rear Face	1.34	0.84	2.18	**Analyzed as below**
			Left Side	0.12	0.22	0.34	∑SAR < 1.6, Not required
			Right Side	1.07	0.05	1.12	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	1.19	0.00	1.19	∑SAR < 1.6, Not required
		Extremity	Rear Face	3.58	1.19	4.77	**Analyzed as below**
9	**WCDMA II + BT (DSS)**	Head	Right Cheek	0.68	0.06	0.74	∑SAR < 1.6, Not required
			Right Tilted	0.20	0.04	0.24	∑SAR < 1.6, Not required
			Left Cheek	0.38	0.03	0.41	∑SAR < 1.6, Not required
			Left Tilted	0.16	0.02	0.18	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.84	0.03	0.87	∑SAR < 1.6, Not required
			Rear Face	1.34	0.04	1.38	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.84	0.03	0.87	∑SAR < 1.6, Not required
			Rear Face	1.34	0.04	1.38	∑SAR < 1.6, Not required
			Left Side	0.12	0.03	0.15	∑SAR < 1.6, Not required
			Right Side	1.07	0.01	1.08	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	1.19	0.00	1.19	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
10	**WCDMA IV + WLAN (DTS)**	Head	Right Cheek	0.51	0.66	1.17	∑SAR < 1.6, Not required
			Right Tilted	0.29	0.46	0.75	∑SAR < 1.6, Not required
			Left Cheek	0.31	0.34	0.65	∑SAR < 1.6, Not required
			Left Tilted	0.19	0.26	0.45	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.74	0.13	0.87	∑SAR < 1.6, Not required
			Rear Face	1.32	0.15	1.47	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.74	0.13	0.87	∑SAR < 1.6, Not required
			Rear Face	1.32	0.15	1.47	∑SAR < 1.6, Not required
			Left Side	0.16	0.10	0.26	∑SAR < 1.6, Not required
			Right Side	0.33	0.04	0.37	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	1.14	0.00	1.14	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
11	WCDMA IV + WLAN (NII)	Head	Right Cheek	0.51	1.37	1.88	**Analyzed as below**
			Right Tilted	0.29	1.10	1.39	∑SAR < 1.6, Not required
			Left Cheek	0.31	1.02	1.33	∑SAR < 1.6, Not required
			Left Tilted	0.19	1.00	1.19	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.74	0.30	1.04	∑SAR < 1.6, Not required
			Rear Face	1.32	0.90	2.22	**Analyzed as below**
		Hotspot	Front Face	0.74	0.29	1.03	∑SAR < 1.6, Not required
			Rear Face	1.32	0.84	2.16	**Analyzed as below**
			Left Side	0.16	0.22	0.38	∑SAR < 1.6, Not required
			Right Side	0.33	0.05	0.38	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	1.14	0.00	1.14	∑SAR < 1.6, Not required
		Extremity	Rear Face	3.06	1.19	4.25	**Analyzed as below**
12	WCDMA IV + BT (DSS)	Head	Right Cheek	0.51	0.06	0.57	∑SAR < 1.6, Not required
			Right Tilted	0.29	0.04	0.33	∑SAR < 1.6, Not required
			Left Cheek	0.31	0.03	0.34	∑SAR < 1.6, Not required
			Left Tilted	0.19	0.02	0.21	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.74	0.03	0.77	∑SAR < 1.6, Not required
			Rear Face	1.32	0.04	1.36	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.74	0.03	0.77	∑SAR < 1.6, Not required
			Rear Face	1.32	0.04	1.36	∑SAR < 1.6, Not required
			Left Side	0.16	0.03	0.19	∑SAR < 1.6, Not required
			Right Side	0.33	0.01	0.34	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	1.14	0.00	1.14	∑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)	Head	Right Cheek	0.20	0.66	0.86	∑SAR < 1.6, Not required
			Right Tilted	0.16	0.46	0.62	∑SAR < 1.6, Not required
			Left Cheek	0.33	0.34	0.67	∑SAR < 1.6, Not required
			Left Tilted	0.16	0.26	0.42	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.43	0.13	0.56	∑SAR < 1.6, Not required
			Rear Face	0.68	0.15	0.83	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.43	0.13	0.56	∑SAR < 1.6, Not required
			Rear Face	0.68	0.15	0.83	∑SAR < 1.6, Not required
			Left Side	0.42	0.10	0.52	∑SAR < 1.6, Not required
			Right Side	0.35	0.04	0.39	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required
14	WCDMA V + WLAN (NII)	Head	Right Cheek	0.20	1.37	1.57	∑SAR < 1.6, Not required
			Right Tilted	0.16	1.10	1.26	∑SAR < 1.6, Not required
			Left Cheek	0.33	1.02	1.35	∑SAR < 1.6, Not required
			Left Tilted	0.16	1.00	1.16	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.43	0.30	0.73	∑SAR < 1.6, Not required
			Rear Face	0.68	0.90	1.58	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.43	0.29	0.72	∑SAR < 1.6, Not required
			Rear Face	0.68	0.84	1.52	∑SAR < 1.6, Not required
			Left Side	0.42	0.22	0.64	∑SAR < 1.6, Not required
			Right Side	0.35	0.05	0.40	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required
15	WCDMA V + BT (DSS)	Head	Right Cheek	0.20	0.06	0.26	∑SAR < 1.6, Not required
			Right Tilted	0.16	0.04	0.20	∑SAR < 1.6, Not required
			Left Cheek	0.33	0.03	0.36	∑SAR < 1.6, Not required
			Left Tilted	0.16	0.02	0.18	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.43	0.03	0.46	∑SAR < 1.6, Not required
			Rear Face	0.68	0.04	0.72	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.43	0.03	0.46	∑SAR < 1.6, Not required
			Rear Face	0.68	0.04	0.72	∑SAR < 1.6, Not required
			Left Side	0.42	0.03	0.45	∑SAR < 1.6, Not required

			Right Side	0.35	0.01	0.36	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
16	LTE 2 + WLAN (DTS)	Head	Right Cheek	0.63	0.66	1.29	∑SAR < 1.6, Not required
			Right Tilted	0.17	0.46	0.63	∑SAR < 1.6, Not required
			Left Cheek	0.30	0.34	0.64	∑SAR < 1.6, Not required
			Left Tilted	0.13	0.26	0.39	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.68	0.13	0.81	∑SAR < 1.6, Not required
			Rear Face	1.09	0.15	1.24	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.68	0.13	0.81	∑SAR < 1.6, Not required
			Rear Face	1.09	0.15	1.24	∑SAR < 1.6, Not required
			Left Side	0.10	0.10	0.20	∑SAR < 1.6, Not required
			Right Side	0.84	0.04	0.88	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.96	0.00	0.96	∑SAR < 1.6, Not required
17	LTE 2 + WLAN (NII)	Head	Right Cheek	0.63	1.37	2.00	**Analyzed as below**
			Right Tilted	0.17	1.10	1.27	∑SAR < 1.6, Not required
			Left Cheek	0.30	1.02	1.32	∑SAR < 1.6, Not required
			Left Tilted	0.13	1.00	1.13	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.68	0.30	0.98	∑SAR < 1.6, Not required
			Rear Face	1.09	0.90	1.99	**Analyzed as below**
		Hotspot	Front Face	0.68	0.29	0.97	∑SAR < 1.6, Not required
			Rear Face	1.09	0.84	1.93	**Analyzed as below**
			Left Side	0.10	0.22	0.32	∑SAR < 1.6, Not required
			Right Side	0.84	0.05	0.89	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.96	0.00	0.96	∑SAR < 1.6, Not required
18	LTE 2 + BT (DSS)	Head	Right Cheek	0.63	0.06	0.69	∑SAR < 1.6, Not required
			Right Tilted	0.17	0.04	0.21	∑SAR < 1.6, Not required
			Left Cheek	0.30	0.03	0.33	∑SAR < 1.6, Not required
			Left Tilted	0.13	0.02	0.15	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.68	0.03	0.71	∑SAR < 1.6, Not required
			Rear Face	1.09	0.04	1.13	∑SAR < 1.6, Not required

		Hotspot	Front Face	0.68	0.03	0.71	∑SAR < 1.6, Not required
			Rear Face	1.09	0.04	1.13	∑SAR < 1.6, Not required
			Left Side	0.10	0.03	0.13	∑SAR < 1.6, Not required
			Right Side	0.84	0.01	0.85	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.96	0.00	0.96	∑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)	Head	Right Cheek	0.57	0.66	1.23	∑SAR < 1.6, Not required
			Right Tilted	0.28	0.46	0.74	∑SAR < 1.6, Not required
			Left Cheek	0.29	0.34	0.63	∑SAR < 1.6, Not required
			Left Tilted	0.18	0.26	0.44	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.57	0.13	0.70	∑SAR < 1.6, Not required
			Rear Face	1.18	0.15	1.33	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.57	0.13	0.70	∑SAR < 1.6, Not required
			Rear Face	1.18	0.15	1.33	∑SAR < 1.6, Not required
			Left Side	0.12	0.10	0.22	∑SAR < 1.6, Not required
			Right Side	0.46	0.04	0.50	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.89	0.00	0.89	∑SAR < 1.6, Not required
20	LTE 4 + WLAN (NII)	Head	Right Cheek	0.57	1.37	1.94	**Analyzed as below**
			Right Tilted	0.28	1.10	1.38	∑SAR < 1.6, Not required
			Left Cheek	0.29	1.02	1.31	∑SAR < 1.6, Not required
			Left Tilted	0.18	1.00	1.18	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.57	0.30	0.87	∑SAR < 1.6, Not required
			Rear Face	1.18	0.90	2.08	**Analyzed as below**
		Hotspot	Front Face	0.57	0.29	0.86	∑SAR < 1.6, Not required
			Rear Face	1.18	0.84	2.02	**Analyzed as below**
			Left Side	0.12	0.22	0.34	∑SAR < 1.6, Not required
			Right Side	0.46	0.05	0.51	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.89	0.00	0.89	∑SAR < 1.6, Not required
		Extremity	Rear Face	3.14	1.19	4.33	**Analyzed as below**

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
21	LTE 4 + BT (DSS)	Head	Right Cheek	0.57	0.06	0.63	∑SAR < 1.6, Not required
			Right Tilted	0.28	0.04	0.32	∑SAR < 1.6, Not required
			Left Cheek	0.29	0.03	0.32	∑SAR < 1.6, Not required
			Left Tilted	0.18	0.02	0.20	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.57	0.03	0.60	∑SAR < 1.6, Not required
			Rear Face	1.18	0.04	1.22	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.57	0.03	0.60	∑SAR < 1.6, Not required
			Rear Face	1.18	0.04	1.22	∑SAR < 1.6, Not required
			Left Side	0.12	0.03	0.15	∑SAR < 1.6, Not required
			Right Side	0.46	0.01	0.47	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.89	0.00	0.89	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
22	LTE 5 + WLAN (DTS)	Head	Right Cheek	0.20	0.66	0.86	∑SAR < 1.6, Not required
			Right Tilted	0.10	0.46	0.56	∑SAR < 1.6, Not required
			Left Cheek	0.32	0.34	0.66	∑SAR < 1.6, Not required
			Left Tilted	0.16	0.26	0.42	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.33	0.13	0.46	∑SAR < 1.6, Not required
			Rear Face	0.52	0.15	0.67	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.33	0.13	0.46	∑SAR < 1.6, Not required
			Rear Face	0.52	0.15	0.67	∑SAR < 1.6, Not required
			Left Side	0.37	0.10	0.47	∑SAR < 1.6, Not required
			Right Side	0.24	0.04	0.28	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required
23	LTE 5 + WLAN (NII)	Head	Right Cheek	0.20	1.37	1.57	∑SAR < 1.6, Not required
			Right Tilted	0.10	1.10	1.20	∑SAR < 1.6, Not required
			Left Cheek	0.32	1.02	1.34	∑SAR < 1.6, Not required
			Left Tilted	0.16	1.00	1.16	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.33	0.30	0.63	∑SAR < 1.6, Not required
			Rear Face	0.52	0.90	1.42	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.33	0.29	0.62	∑SAR < 1.6, Not required

			Rear Face	0.52	0.84	1.36	∑SAR < 1.6, Not required
			Left Side	0.37	0.22	0.59	∑SAR < 1.6, Not required
			Right Side	0.24	0.05	0.29	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required
24	LTE 5 + BT (DSS)	Head	Right Cheek	0.20	0.06	0.26	∑SAR < 1.6, Not required
			Right Tilted	0.10	0.04	0.14	∑SAR < 1.6, Not required
			Left Cheek	0.32	0.03	0.35	∑SAR < 1.6, Not required
			Left Tilted	0.16	0.02	0.18	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.33	0.03	0.36	∑SAR < 1.6, Not required
			Rear Face	0.52	0.04	0.56	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.33	0.03	0.36	∑SAR < 1.6, Not required
			Rear Face	0.52	0.04	0.56	∑SAR < 1.6, Not required
			Left Side	0.37	0.03	0.40	∑SAR < 1.6, Not required
			Right Side	0.24	0.01	0.25	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑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)	Head	Right Cheek	0.21	0.66	0.87	∑SAR < 1.6, Not required
			Right Tilted	0.19	0.46	0.65	∑SAR < 1.6, Not required
			Left Cheek	0.44	0.34	0.78	∑SAR < 1.6, Not required
			Left Tilted	0.33	0.26	0.59	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.35	0.13	0.48	∑SAR < 1.6, Not required
			Rear Face	1.19	0.15	1.34	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.35	0.13	0.48	∑SAR < 1.6, Not required
			Rear Face	1.19	0.15	1.34	∑SAR < 1.6, Not required
			Left Side	0.39	0.10	0.49	∑SAR < 1.6, Not required
			Right Side	0.11	0.04	0.15	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.83	0.00	0.83	∑SAR < 1.6, Not required
26	LTE 7 + WLAN (NII)	Head	Right Cheek	0.21	1.37	1.58	∑SAR < 1.6, Not required
			Right Tilted	0.19	1.10	1.29	∑SAR < 1.6, Not required
			Left Cheek	0.44	1.02	1.46	∑SAR < 1.6, Not required

			Left Tilted	0.33	1.00	1.33	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.35	0.30	0.65	∑SAR < 1.6, Not required
			Rear Face	1.19	0.90	2.09	**Analyzed as below**
		Hotspot	Front Face	0.35	0.29	0.64	∑SAR < 1.6, Not required
			Rear Face	1.19	0.84	2.03	**Analyzed as below**
			Left Side	0.39	0.22	0.61	∑SAR < 1.6, Not required
			Right Side	0.11	0.05	0.16	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.83	0.00	0.83	∑SAR < 1.6, Not required
		Extremity	Rear Face	1.14	1.19	2.33	∑SAR < 4.0, Not required
27	**LTE 7 + BT (DSS)**	Head	Right Cheek	0.21	0.06	0.27	∑SAR < 1.6, Not required
			Right Tilted	0.19	0.04	0.23	∑SAR < 1.6, Not required
			Left Cheek	0.44	0.03	0.47	∑SAR < 1.6, Not required
			Left Tilted	0.33	0.02	0.35	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.35	0.03	0.38	∑SAR < 1.6, Not required
			Rear Face	1.19	0.04	1.23	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.35	0.03	0.38	∑SAR < 1.6, Not required
			Rear Face	1.19	0.04	1.23	∑SAR < 1.6, Not required
			Left Side	0.39	0.03	0.42	∑SAR < 1.6, Not required
			Right Side	0.11	0.01	0.12	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.83	0.00	0.83	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
28	LTE 12 + WLAN (DTS)	Head	Right Cheek	0.22	0.66	0.88	∑SAR < 1.6, Not required
			Right Tilted	0.12	0.46	0.58	∑SAR < 1.6, Not required
			Left Cheek	0.20	0.34	0.54	∑SAR < 1.6, Not required
			Left Tilted	0.11	0.26	0.37	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.27	0.13	0.40	∑SAR < 1.6, Not required
			Rear Face	0.57	0.15	0.72	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.27	0.13	0.40	∑SAR < 1.6, Not required
			Rear Face	0.57	0.15	0.72	∑SAR < 1.6, Not required
			Left Side	0.32	0.10	0.42	∑SAR < 1.6, Not required
			Right Side	0.27	0.04	0.31	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.04	0.00	0.04	∑SAR < 1.6, Not required
29	LTE 12 + WLAN (NII)	Head	Right Cheek	0.22	1.37	1.59	∑SAR < 1.6, Not required
			Right Tilted	0.12	1.10	1.22	∑SAR < 1.6, Not required
			Left Cheek	0.20	1.02	1.22	∑SAR < 1.6, Not required
			Left Tilted	0.11	1.00	1.11	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.27	0.30	0.57	∑SAR < 1.6, Not required
			Rear Face	0.57	0.90	1.47	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.27	0.29	0.56	∑SAR < 1.6, Not required
			Rear Face	0.57	0.84	1.41	∑SAR < 1.6, Not required
			Left Side	0.32	0.22	0.54	∑SAR < 1.6, Not required
			Right Side	0.27	0.05	0.32	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.04	0.00	0.04	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
30	LTE 12 + BT (DSS)	Head	Right Cheek	0.22	0.06	0.28	∑SAR < 1.6, Not required
			Right Tilted	0.12	0.04	0.16	∑SAR < 1.6, Not required
			Left Cheek	0.20	0.03	0.23	∑SAR < 1.6, Not required
			Left Tilted	0.11	0.02	0.13	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.27	0.03	0.30	∑SAR < 1.6, Not required
			Rear Face	0.57	0.04	0.61	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.27	0.03	0.30	∑SAR < 1.6, Not required
			Rear Face	0.57	0.04	0.61	∑SAR < 1.6, Not required
			Left Side	0.32	0.03	0.35	∑SAR < 1.6, Not required
			Right Side	0.27	0.01	0.28	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.04	0.00	0.04	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
31	LTE 13 + WLAN (DTS)	Head	Right Cheek	0.15	0.66	0.81	∑SAR < 1.6, Not required
			Right Tilted	0.07	0.46	0.53	∑SAR < 1.6, Not required
			Left Cheek	0.23	0.34	0.57	∑SAR < 1.6, Not required
			Left Tilted	0.11	0.26	0.37	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.13	0.44	∑SAR < 1.6, Not required
			Rear Face	0.48	0.15	0.63	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.13	0.60	∑SAR < 1.6, Not required
			Rear Face	0.48	0.15	1.32	∑SAR < 1.6, Not required
			Left Side	0.31	0.10	0.53	∑SAR < 1.6, Not required
			Right Side	0.24	0.04	0.29	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.07	0.00	0.07	∑SAR < 1.6, Not required
32	LTE 13 + WLAN (NII)	Head	Right Cheek	0.15	1.37	1.52	∑SAR < 1.6, Not required
			Right Tilted	0.07	1.10	1.17	∑SAR < 1.6, Not required
			Left Cheek	0.23	1.02	1.25	∑SAR < 1.6, Not required
			Left Tilted	0.11	1.00	1.11	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.30	0.61	∑SAR < 1.6, Not required
			Rear Face	0.48	0.90	1.38	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.29	0.60	∑SAR < 1.6, Not required
			Rear Face	0.48	0.84	1.32	∑SAR < 1.6,

							Not required
			Left Side	0.31	0.22	0.53	∑SAR < 1.6, Not required
			Right Side	0.24	0.05	0.29	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.07	0.00	0.07	∑SAR < 1.6, Not required
33	LTE 13 + BT (DSS)	Head	Right Cheek	0.15	0.06	0.21	∑SAR < 1.6, Not required
			Right Tilted	0.07	0.04	0.11	∑SAR < 1.6, Not required
			Left Cheek	0.23	0.03	0.26	∑SAR < 1.6, Not required
			Left Tilted	0.11	0.02	0.13	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.03	0.34	∑SAR < 1.6, Not required
			Rear Face	0.48	0.04	0.52	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.03	0.34	∑SAR < 1.6, Not required
			Rear Face	0.48	0.04	0.52	∑SAR < 1.6, Not required
			Left Side	0.31	0.03	0.34	∑SAR < 1.6, Not required
			Right Side	0.24	0.01	0.25	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.07	0.00	0.07	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
34	LTE 14 + WLAN (DTS)	Head	Right Cheek	0.16	0.66	0.82	∑SAR < 1.6, Not required
			Right Tilted	0.08	0.46	0.54	∑SAR < 1.6, Not required
			Left Cheek	0.25	0.34	0.59	∑SAR < 1.6, Not required
			Left Tilted	0.13	0.26	0.39	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.13	0.44	∑SAR < 1.6, Not required
			Rear Face	0.52	0.15	0.67	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.13	0.44	∑SAR < 1.6, Not required
			Rear Face	0.52	0.15	0.67	∑SAR < 1.6, Not required
			Left Side	0.32	0.10	0.42	∑SAR < 1.6, Not required
			Right Side	0.26	0.04	0.30	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.07	0.00	0.07	∑SAR < 1.6, Not required
35	LTE 14 + WLAN (NII)	Head	Right Cheek	0.16	1.37	1.53	∑SAR < 1.6, Not required
			Right Tilted	0.08	1.10	1.18	∑SAR < 1.6, Not required
			Left Cheek	0.25	1.02	1.27	∑SAR < 1.6, Not required
			Left Tilted	0.13	1.00	1.13	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.30	0.61	∑SAR < 1.6,

							Not required
			Rear Face	0.52	0.90	1.42	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.29	0.60	∑SAR < 1.6, Not required
			Rear Face	0.52	0.84	1.36	∑SAR < 1.6, Not required
			Left Side	0.32	0.22	0.54	∑SAR < 1.6, Not required
			Right Side	0.26	0.05	0.31	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.07	0.00	0.07	∑SAR < 1.6, Not required
36	LTE 14 + BT (DSS)	Head	Right Cheek	0.16	0.06	0.22	∑SAR < 1.6, Not required
			Right Tilted	0.08	0.04	0.12	∑SAR < 1.6, Not required
			Left Cheek	0.25	0.03	0.28	∑SAR < 1.6, Not required
			Left Tilted	0.13	0.02	0.15	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.31	0.03	0.34	∑SAR < 1.6, Not required
			Rear Face	0.52	0.04	0.56	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.31	0.03	0.34	∑SAR < 1.6, Not required
			Rear Face	0.52	0.04	0.56	∑SAR < 1.6, Not required
			Left Side	0.32	0.03	0.35	∑SAR < 1.6, Not required
			Right Side	0.26	0.01	0.27	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.07	0.00	0.07	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
37	LTE 25 + WLAN (DTS)	Head	Right Cheek	0.60	0.66	1.26	∑SAR < 1.6, Not required
			Right Tilted	0.17	0.46	0.63	∑SAR < 1.6, Not required
			Left Cheek	0.29	0.34	0.63	∑SAR < 1.6, Not required
			Left Tilted	0.15	0.26	0.41	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.62	0.13	0.75	∑SAR < 1.6, Not required
			Rear Face	1.20	0.15	1.35	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.62	0.13	0.75	∑SAR < 1.6, Not required
			Rear Face	1.20	0.15	1.35	∑SAR < 1.6, Not required
			Left Side	0.13	0.10	0.23	∑SAR < 1.6, Not required
			Right Side	0.50	0.04	0.54	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.96	0.00	0.96	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
38	LTE 25 + WLAN (NII)	Head	Right Cheek	0.60	1.37	1.97	**Analyzed as below**
			Right Tilted	0.17	1.10	1.27	∑SAR < 1.6, Not required
			Left Cheek	0.29	1.02	1.31	∑SAR < 1.6, Not required
			Left Tilted	0.15	1.00	1.15	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.62	0.30	0.92	∑SAR < 1.6, Not required
			Rear Face	1.20	0.90	2.10	**Analyzed as below**
		Hotspot	Front Face	0.62	0.29	0.91	∑SAR < 1.6, Not required
			Rear Face	1.20	0.84	2.04	**Analyzed as below**
			Left Side	0.13	0.22	0.35	∑SAR < 1.6, Not required
			Right Side	0.50	0.05	0.55	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.96	0.00	0.96	∑SAR < 1.6, Not required
		Extremity	Rear Face	3.25	1.19	4.44	**Analyzed as below**
39	LTE 25 + BT (DSS)	Head	Right Cheek	0.60	0.06	0.66	∑SAR < 1.6, Not required
			Right Tilted	0.17	0.04	0.21	∑SAR < 1.6, Not required
			Left Cheek	0.29	0.03	0.32	∑SAR < 1.6, Not required
			Left Tilted	0.15	0.02	0.17	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.62	0.03	0.65	∑SAR < 1.6, Not required
			Rear Face	1.20	0.04	1.24	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.62	0.03	0.65	∑SAR < 1.6, Not required
			Rear Face	1.20	0.04	1.24	∑SAR < 1.6, Not required
			Left Side	0.13	0.03	0.16	∑SAR < 1.6, Not required
			Right Side	0.50	0.01	0.51	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.96	0.00	0.96	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
40	LTE 26 + WLAN (DTS)	Head	Right Cheek	0.22	0.66	0.88	∑SAR < 1.6, Not required
			Right Tilted	0.10	0.46	0.56	∑SAR < 1.6, Not required
			Left Cheek	0.35	0.34	0.69	∑SAR < 1.6, Not required
			Left Tilted	0.17	0.26	0.43	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.13	0.49	∑SAR < 1.6, Not required
			Rear Face	0.57	0.15	0.72	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.13	0.49	∑SAR < 1.6, Not required
			Rear Face	0.57	0.15	0.72	∑SAR < 1.6, Not required
			Left Side	0.40	0.10	0.50	∑SAR < 1.6, Not required
			Right Side	0.27	0.04	0.31	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required
41	LTE 26 + WLAN (NII)	Head	Right Cheek	0.22	1.37	1.59	∑SAR < 1.6, Not required
			Right Tilted	0.10	1.10	1.20	∑SAR < 1.6, Not required
			Left Cheek	0.35	1.02	1.37	∑SAR < 1.6, Not required
			Left Tilted	0.17	1.00	1.17	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.30	0.66	∑SAR < 1.6, Not required
			Rear Face	0.57	0.90	1.47	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.29	0.65	∑SAR < 1.6, Not required
			Rear Face	0.57	0.84	1.41	∑SAR < 1.6, Not required
			Left Side	0.40	0.22	0.62	∑SAR < 1.6, Not required
			Right Side	0.27	0.05	0.32	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required
42	LTE 26 + BT (DSS)	Head	Right Cheek	0.22	0.06	0.28	∑SAR < 1.6, Not required
			Right Tilted	0.10	0.04	0.14	∑SAR < 1.6, Not required
			Left Cheek	0.35	0.03	0.38	∑SAR < 1.6, Not required
			Left Tilted	0.17	0.02	0.19	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.36	0.03	0.39	∑SAR < 1.6, Not required
			Rear Face	0.57	0.04	0.61	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.36	0.03	0.39	∑SAR < 1.6, Not required
			Rear Face	0.57	0.04	0.61	∑SAR < 1.6, Not required
			Left Side	0.40	0.03	0.43	∑SAR < 1.6, Not required

			Right Side	0.27	0.01	0.28	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.12	0.00	0.12	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
43	LTE 30 + WLAN (DTS)	Head	Right Cheek	0.20	0.66	0.86	∑SAR < 1.6, Not required
			Right Tilted	0.16	0.46	0.62	∑SAR < 1.6, Not required
			Left Cheek	0.43	0.34	0.77	∑SAR < 1.6, Not required
			Left Tilted	0.09	0.26	0.35	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.37	0.13	0.50	∑SAR < 1.6, Not required
			Rear Face	0.46	0.15	0.61	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.37	0.13	0.50	∑SAR < 1.6, Not required
			Rear Face	0.46	0.15	0.61	∑SAR < 1.6, Not required
			Left Side	0.31	0.10	0.41	∑SAR < 1.6, Not required
			Right Side	0.05	0.04	0.09	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.63	0.00	0.63	∑SAR < 1.6, Not required
44	LTE 30 + WLAN (NII)	Head	Right Cheek	0.20	1.37	1.57	∑SAR < 1.6, Not required
			Right Tilted	0.16	1.10	1.26	∑SAR < 1.6, Not required
			Left Cheek	0.43	1.02	1.45	∑SAR < 1.6, Not required
			Left Tilted	0.09	1.00	1.09	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.37	0.30	0.67	∑SAR < 1.6, Not required
			Rear Face	0.46	0.90	1.36	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.37	0.29	0.66	∑SAR < 1.6, Not required
			Rear Face	0.46	0.84	1.30	∑SAR < 1.6, Not required
			Left Side	0.31	0.22	0.53	∑SAR < 1.6, Not required
			Right Side	0.05	0.05	0.10	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.63	0.00	0.63	∑SAR < 1.6, Not required
45	LTE 30 + BT (DSS)	Head	Right Cheek	0.20	0.06	0.26	∑SAR < 1.6, Not required
			Right Tilted	0.16	0.04	0.20	∑SAR < 1.6, Not required
			Left Cheek	0.43	0.03	0.46	∑SAR < 1.6, Not required
			Left Tilted	0.09	0.02	0.11	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.37	0.03	0.40	∑SAR < 1.6, Not required
			Rear Face	0.46	0.04	0.50	∑SAR < 1.6, Not required

		Hotspot	Front Face	0.37	0.03	0.40	∑SAR < 1.6, Not required
			Rear Face	0.46	0.04	0.50	∑SAR < 1.6, Not required
			Left Side	0.31	0.03	0.34	∑SAR < 1.6, Not required
			Right Side	0.05	0.01	0.06	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.63	0.00	0.63	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
46	LTE 38 + WLAN (DTS)	Head	Right Cheek	0.11	0.66	0.77	∑SAR < 1.6, Not required
			Right Tilted	0.10	0.46	0.56	∑SAR < 1.6, Not required
			Left Cheek	0.23	0.34	0.57	∑SAR < 1.6, Not required
			Left Tilted	0.06	0.26	0.32	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.22	0.13	0.35	∑SAR < 1.6, Not required
			Rear Face	0.57	0.15	0.72	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.22	0.13	0.35	∑SAR < 1.6, Not required
			Rear Face	0.57	0.15	0.72	∑SAR < 1.6, Not required
			Left Side	0.18	0.10	0.28	∑SAR < 1.6, Not required
			Right Side	0.05	0.04	0.09	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.46	0.00	0.46	∑SAR < 1.6, Not required
47	LTE 38 + WLAN (NII)	Head	Right Cheek	0.11	1.37	1.48	∑SAR < 1.6, Not required
			Right Tilted	0.10	1.10	1.20	∑SAR < 1.6, Not required
			Left Cheek	0.23	1.02	1.25	∑SAR < 1.6, Not required
			Left Tilted	0.06	1.00	1.06	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.22	0.30	0.52	∑SAR < 1.6, Not required
			Rear Face	0.57	0.90	1.47	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.22	0.29	0.51	∑SAR < 1.6, Not required
			Rear Face	0.57	0.84	1.41	∑SAR < 1.6, Not required
			Left Side	0.18	0.22	0.40	∑SAR < 1.6, Not required
			Right Side	0.05	0.05	0.10	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.46	0.00	0.46	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
48	LTE 38 + BT (DSS)	Head	Right Cheek	0.11	0.06	0.17	∑SAR < 1.6, Not required
			Right Tilted	0.10	0.04	0.14	∑SAR < 1.6, Not required
			Left Cheek	0.23	0.03	0.26	∑SAR < 1.6, Not required
			Left Tilted	0.06	0.02	0.08	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.22	0.03	0.25	∑SAR < 1.6, Not required
			Rear Face	0.57	0.04	0.61	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.22	0.03	0.25	∑SAR < 1.6, Not required
			Rear Face	0.57	0.04	0.61	∑SAR < 1.6, Not required
			Left Side	0.18	0.03	0.21	∑SAR < 1.6, Not required
			Right Side	0.05	0.01	0.06	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.46	0.00	0.46	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
49	LTE 40 + WLAN (DTS)	Head	Right Cheek	0.16	0.66	0.82	∑SAR < 1.6, Not required
			Right Tilted	0.13	0.46	0.59	∑SAR < 1.6, Not required
			Left Cheek	0.36	0.34	0.70	∑SAR < 1.6, Not required
			Left Tilted	0.07	0.26	0.33	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.29	0.13	0.42	∑SAR < 1.6, Not required
			Rear Face	0.37	0.15	0.52	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.29	0.13	0.42	∑SAR < 1.6, Not required
			Rear Face	0.37	0.15	0.52	∑SAR < 1.6, Not required
			Left Side	0.25	0.10	0.35	∑SAR < 1.6, Not required
			Right Side	0.04	0.04	0.08	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.50	0.00	0.50	∑SAR < 1.6, Not required
50	LTE 40 + WLAN (NII)	Head	Right Cheek	0.16	1.37	1.53	∑SAR < 1.6, Not required
			Right Tilted	0.13	1.10	1.23	∑SAR < 1.6, Not required
			Left Cheek	0.36	1.02	1.38	∑SAR < 1.6, Not required
			Left Tilted	0.07	1.00	1.07	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.29	0.30	0.59	∑SAR < 1.6, Not required
			Rear Face	0.37	0.90	1.27	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.29	0.29	0.58	∑SAR < 1.6, Not required

			Rear Face	0.37	0.84	1.21	∑SAR < 1.6, Not required
			Left Side	0.25	0.22	0.47	∑SAR < 1.6, Not required
			Right Side	0.04	0.05	0.09	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.50	0.00	0.50	∑SAR < 1.6, Not required
51	LTE 40 + BT (DSS)	Head	Right Cheek	0.16	0.06	1.52	∑SAR < 1.6, Not required
			Right Tilted	0.13	0.04	1.23	∑SAR < 1.6, Not required
			Left Cheek	0.36	0.03	1.38	∑SAR < 1.6, Not required
			Left Tilted	0.07	0.02	1.07	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.29	0.03	0.46	∑SAR < 1.6, Not required
			Rear Face	0.37	0.04	0.87	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.29	0.03	0.46	∑SAR < 1.6, Not required
			Rear Face	0.37	0.04	0.87	∑SAR < 1.6, Not required
			Left Side	0.25	0.03	0.38	∑SAR < 1.6, Not required
			Right Side	0.04	0.01	0.07	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.28	∑SAR < 1.6, Not required
			Bottom Side	0.50	0.00	0.50	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
52	LTE 41 + WLAN (DTS)	Head	Right Cheek	0.10	0.66	0.76	∑SAR < 1.6, Not required
			Right Tilted	0.09	0.46	0.55	∑SAR < 1.6, Not required
			Left Cheek	0.20	0.34	0.54	∑SAR < 1.6, Not required
			Left Tilted	0.05	0.26	0.31	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.21	0.13	0.34	∑SAR < 1.6, Not required
			Rear Face	0.52	0.15	0.67	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.21	0.13	0.34	∑SAR < 1.6, Not required
			Rear Face	0.52	0.15	0.67	∑SAR < 1.6, Not required
			Left Side	0.18	0.10	0.28	∑SAR < 1.6, Not required
			Right Side	0.05	0.04	0.09	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	0.44	0.00	0.44	∑SAR < 1.6, Not required
53	LTE 41 + WLAN (NII)	Head	Right Cheek	0.10	1.37	1.47	∑SAR < 1.6, Not required
			Right Tilted	0.09	1.10	1.19	∑SAR < 1.6, Not required
			Left Cheek	0.20	1.02	1.22	∑SAR < 1.6, Not required
			Left Tilted	0.05	1.00	1.05	∑SAR < 1.6, Not required

		Body-Worn	Front Face	0.21	0.30	0.51	∑SAR < 1.6, Not required
			Rear Face	0.52	0.90	1.42	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.21	0.29	0.50	∑SAR < 1.6, Not required
			Rear Face	0.52	0.84	1.36	∑SAR < 1.6, Not required
			Left Side	0.18	0.22	0.40	∑SAR < 1.6, Not required
			Right Side	0.05	0.05	0.10	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	0.44	0.00	0.44	∑SAR < 1.6, Not required
54	LTE 41 + BT (DSS)	Head	Right Cheek	0.10	0.06	0.16	∑SAR < 1.6, Not required
			Right Tilted	0.09	0.04	0.13	∑SAR < 1.6, Not required
			Left Cheek	0.20	0.03	0.23	∑SAR < 1.6, Not required
			Left Tilted	0.05	0.02	0.07	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.21	0.03	0.24	∑SAR < 1.6, Not required
			Rear Face	0.52	0.04	0.56	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.21	0.03	0.24	∑SAR < 1.6, Not required
			Rear Face	0.52	0.04	0.56	∑SAR < 1.6, Not required
			Left Side	0.18	0.03	0.21	∑SAR < 1.6, Not required
			Right Side	0.05	0.01	0.06	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	0.44	0.00	0.44	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
55	LTE 66 + WLAN (DTS)	Head	Right Cheek	0.59	0.66	1.25	∑SAR < 1.6, Not required
			Right Tilted	0.26	0.46	0.72	∑SAR < 1.6, Not required
			Left Cheek	0.33	0.34	0.67	∑SAR < 1.6, Not required
			Left Tilted	0.16	0.26	0.42	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.78	0.13	0.91	∑SAR < 1.6, Not required
			Rear Face	1.39	0.15	1.54	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.78	0.13	0.91	∑SAR < 1.6, Not required
			Rear Face	1.39	0.15	1.54	∑SAR < 1.6, Not required
			Left Side	0.16	0.10	0.26	∑SAR < 1.6, Not required
			Right Side	0.62	0.04	0.66	∑SAR < 1.6, Not required
			Top Side	0.00	0.12	0.12	∑SAR < 1.6, Not required
			Bottom Side	1.20	0.00	1.20	∑SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
56	LTE 66 + WLAN (NII)	Head	Right Cheek	0.59	1.37	1.96	**Analyzed as below**
			Right Tilted	0.26	1.10	1.36	∑SAR < 1.6, Not required
			Left Cheek	0.33	1.02	1.35	∑SAR < 1.6, Not required
			Left Tilted	0.16	1.00	1.16	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.78	0.30	1.08	∑SAR < 1.6, Not required
			Rear Face	1.39	0.90	2.29	**Analyzed as below**
		Hotspot	Front Face	0.78	0.29	1.07	∑SAR < 1.6, Not required
			Rear Face	1.39	0.84	2.23	**Analyzed as below**
			Left Side	0.16	0.22	0.38	∑SAR < 1.6, Not required
			Right Side	0.62	0.05	0.67	∑SAR < 1.6, Not required
			Top Side	0.00	0.47	0.47	∑SAR < 1.6, Not required
			Bottom Side	1.20	0.00	1.20	∑SAR < 1.6, Not required
		Extremity	Rear Face	3.26	1.19	4.45	**Analyzed as below**
57	LTE 66 + BT (DSS)	Head	Right Cheek	0.59	0.06	0.65	∑SAR < 1.6, Not required
			Right Tilted	0.26	0.04	0.30	∑SAR < 1.6, Not required
			Left Cheek	0.33	0.03	0.36	∑SAR < 1.6, Not required
			Left Tilted	0.16	0.02	0.18	∑SAR < 1.6, Not required
		Body-Worn	Front Face	0.78	0.03	0.81	∑SAR < 1.6, Not required
			Rear Face	1.39	0.04	1.43	∑SAR < 1.6, Not required
		Hotspot	Front Face	0.78	0.03	0.81	∑SAR < 1.6, Not required
			Rear Face	1.39	0.04	1.43	∑SAR < 1.6, Not required
			Left Side	0.16	0.03	0.19	∑SAR < 1.6, Not required
			Right Side	0.62	0.01	0.63	∑SAR < 1.6, Not required
			Top Side	0.00	0.03	0.03	∑SAR < 1.6, Not required
			Bottom Side	1.20	0.00	1.20	∑SAR < 1.6, Not required

<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.

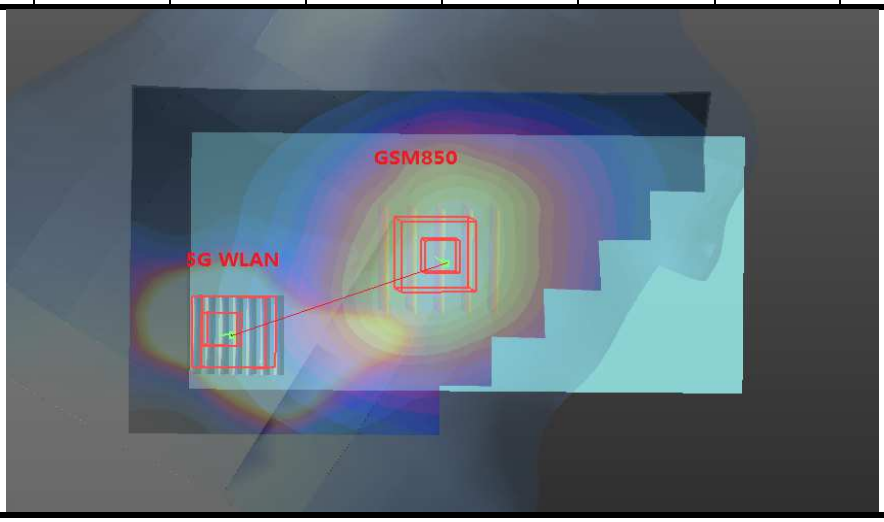
The SPLSR is determined by the following formula.

$$\text{SPLSR} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{R_i}$$

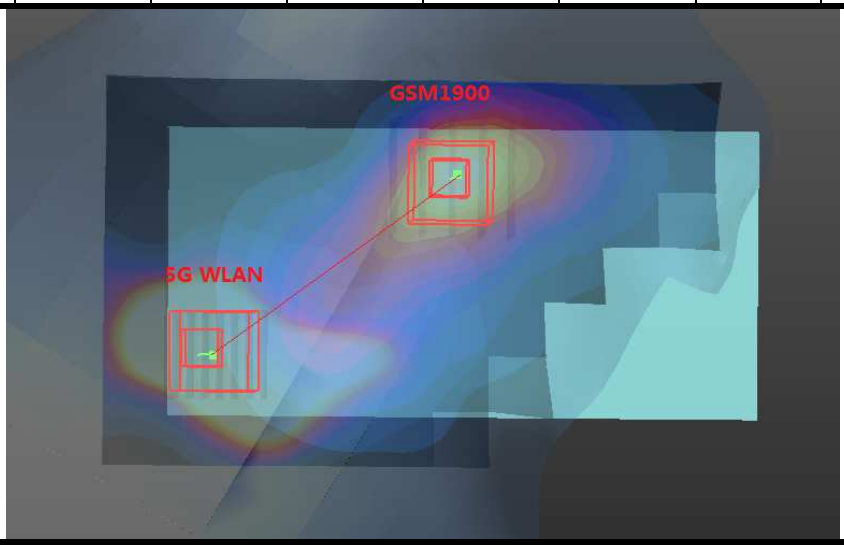
Where SAR_1 and SAR_2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When the SPLSR is <= 0.04(1g) or <= 0.1(10g), the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

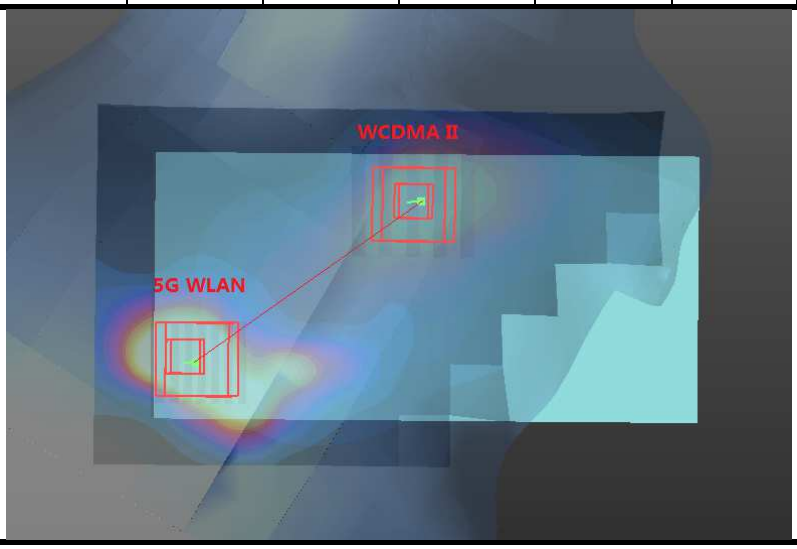
1									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM850	Head	Right Cheek	0.33	54.3	33.2	-2.6	69.3	0.032	SPLSR < 0.04,
802.11n			1.37	6.6	-17.0	-1.5			Not required



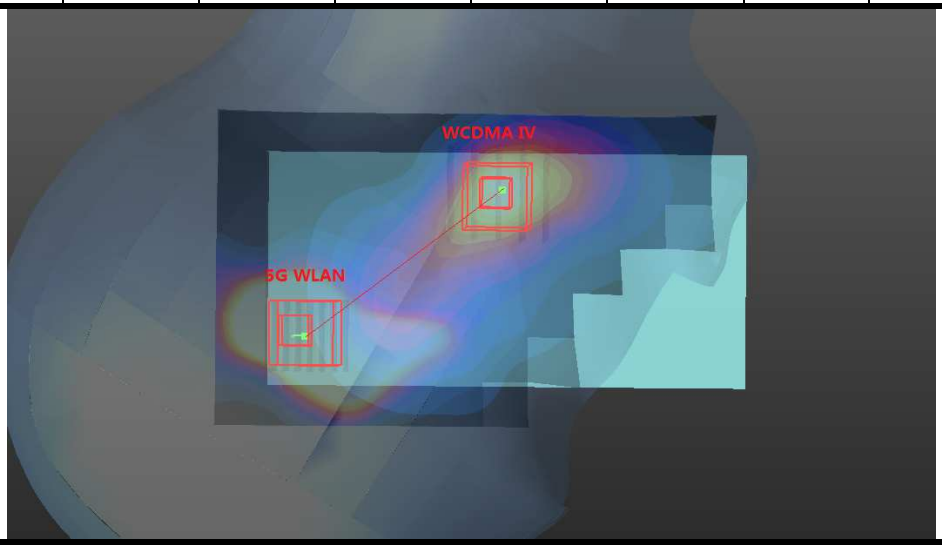
2									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
GSM1900	Head	Right Cheek	0.34	45.4	57.5	-2.0	84.0	0.027	SPLSR < 0.04,
802.11n			1.37	6.6	-17.0	-1.5			Not required



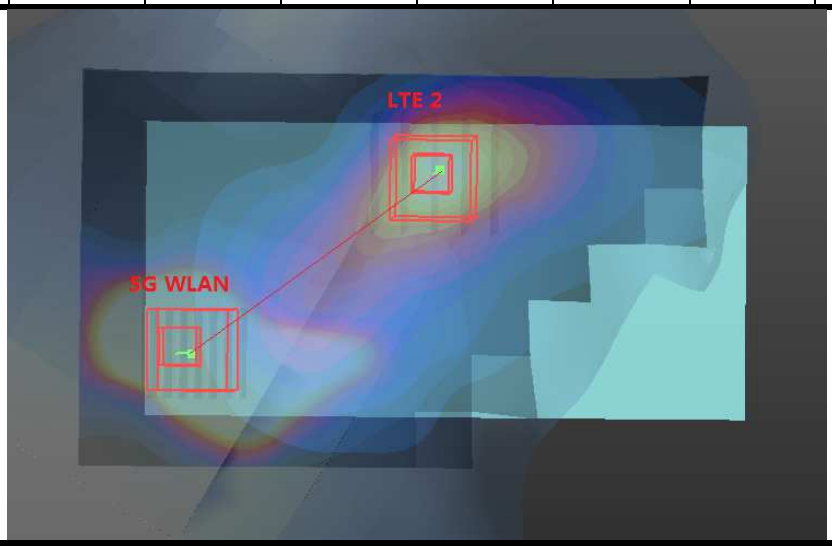
3									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II	Head	Right Cheek	**0.68**	**42.5**	**56.0**	**-2.4**	81.4	0.036	SPLSR < 0.04,
802.11n			**1.37**	6.6	-17.0	**-1.5**			Not required



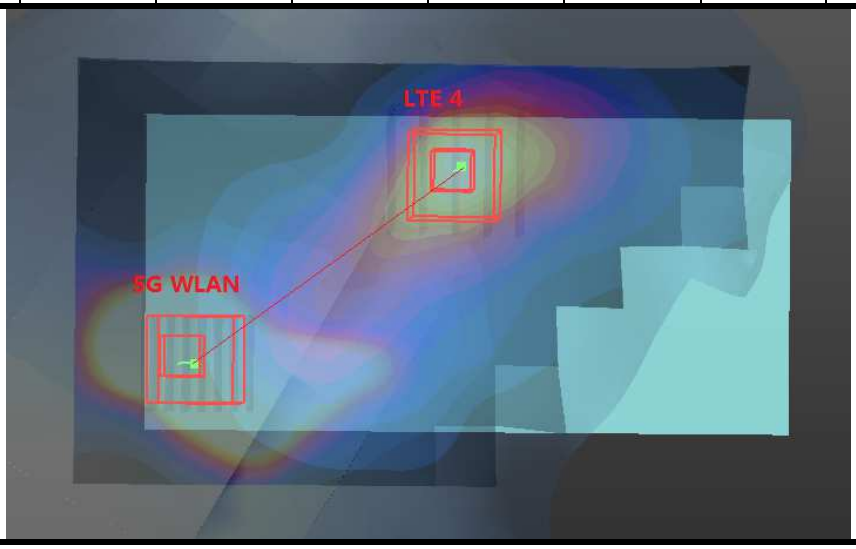
4									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV	Head	Right Cheek	0.50	41.9	53.8	-2.6	79.1	0.032	SPLSR < 0.04,
802.11n			**1.37**	6.6	-17.0	-1.5			Not required



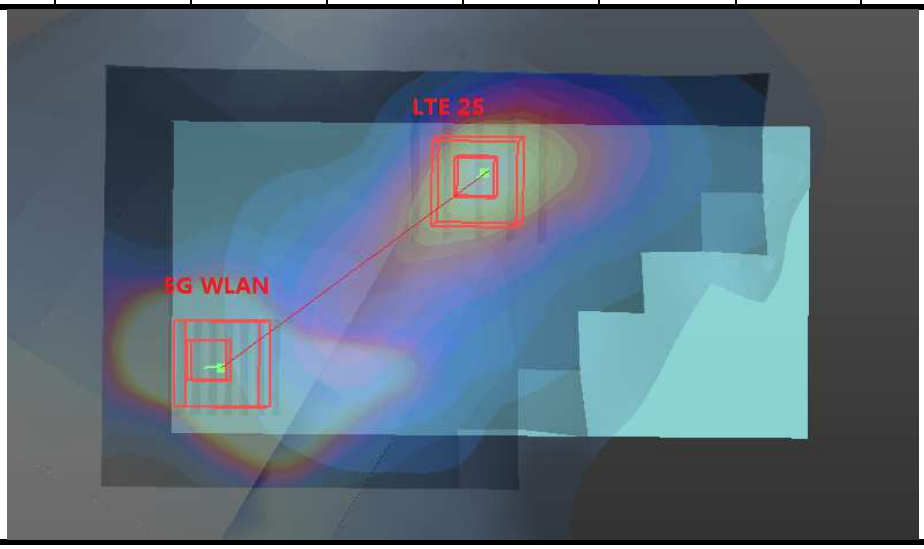
5									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2	Head	Right Cheek	0.63	44.6	58.9	-2.0	84.9	0.033	SPLSR < 0.04,
802.11n			1.37	6.6	-17.0	-1.5			Not required



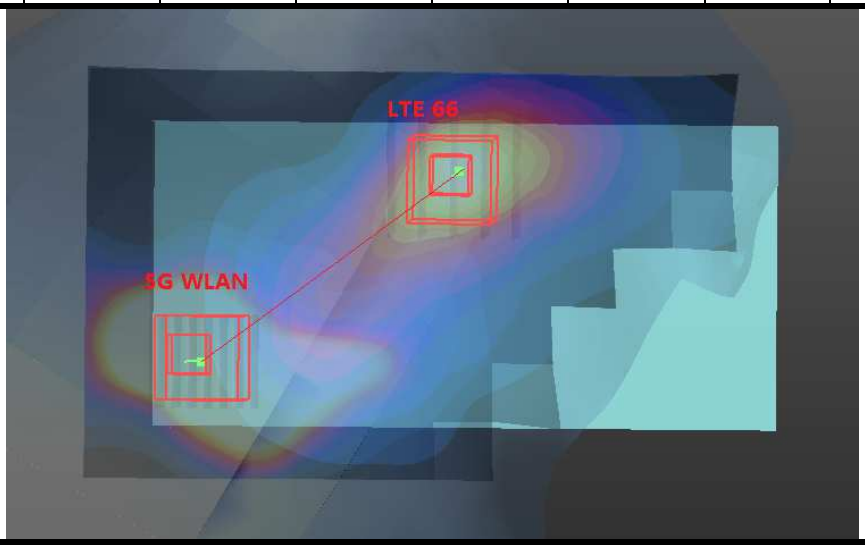
6									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4	Head	Right Cheek	0.57	46.7	58.3	-1.8	85.3	0.032	SPLSR < 0.04,
802.11n			1.37	6.6	-17.0	-1.5			Not required



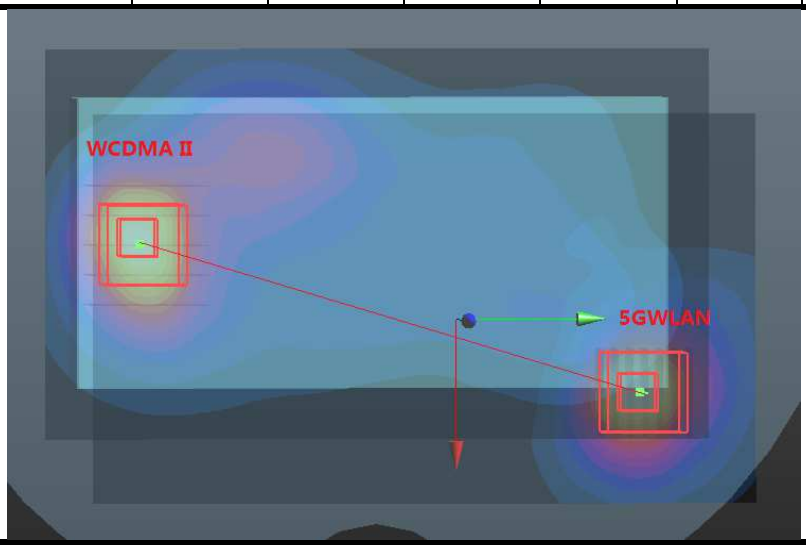
7									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25	Head	Right Cheek	0.60	44.6	58.9	-2.0	84.9	0.033	SPLSR < 0.04,
802.11n			1.37	6.6	-17.0	-1.5			Not required



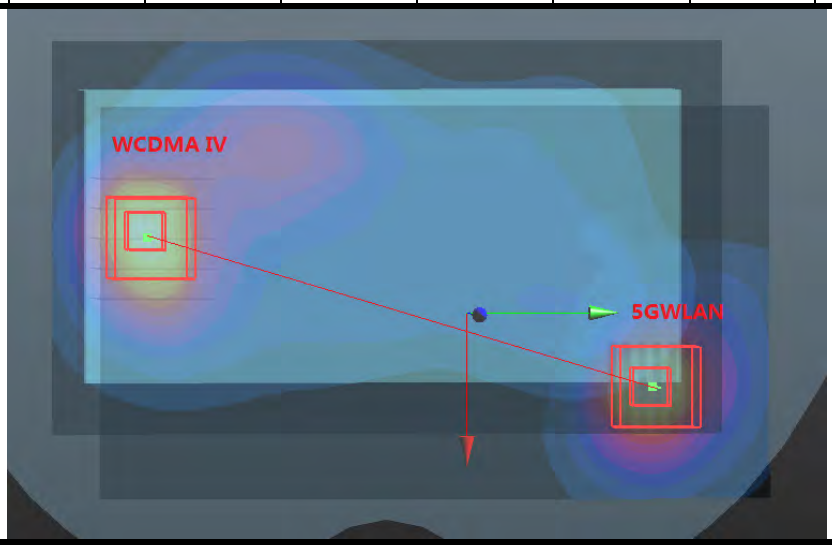
8									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 66	Head	Right Cheek	0.59	41.2	55.1	-2.5	80.0	0.034	SPLSR < 0.04,
802.11n			1.37	6.6	-17.0	-1.5			Not required



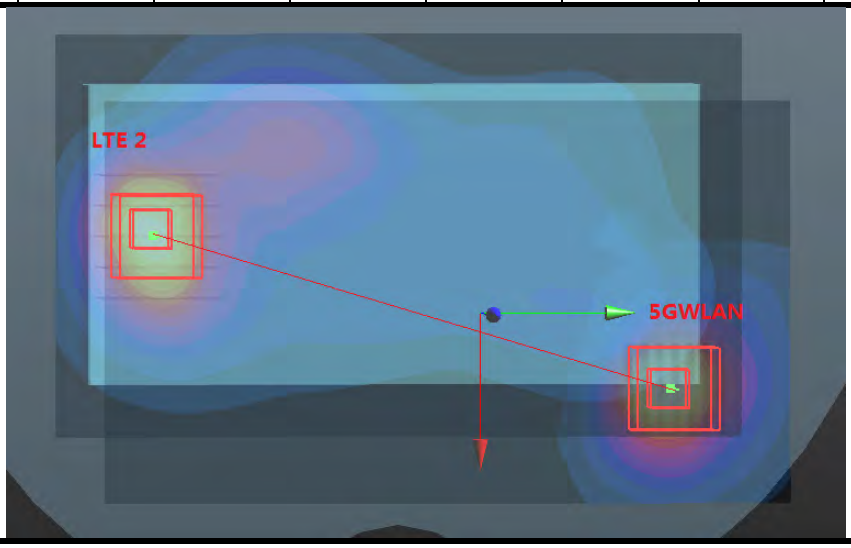
9									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCMDA II	Body	Rear Face	1.34	-3.2	-64.5	-1.7	134.6	0.025	SPLSR < 0.04,
802.11n			0.90	22.5	67.6	-2.9			Not required



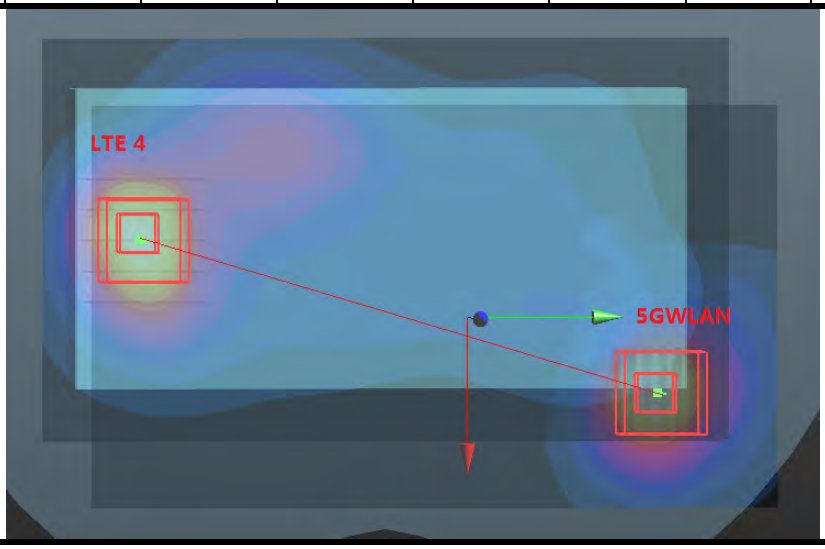
10									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV	Body	Rear Face	1.32	-3.1	-64.5	-1.7	134.6	0.025	SPLSR < 0.04,
802.11n			0.90	22.5	67.6	-2.9			Not required



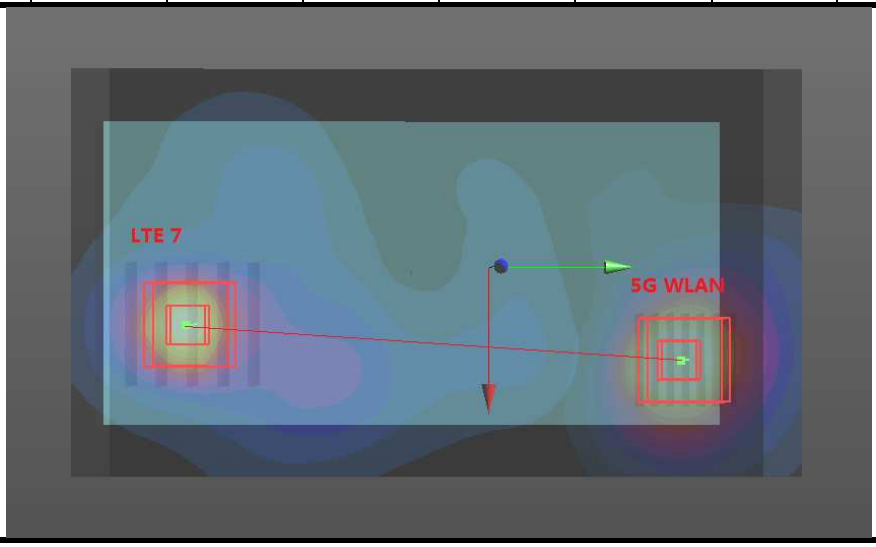
11									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2	Body	Rear Face	1.09	-9.2	-67.5	-1.5	138.8	0.020	SPLSR < 0.04,
802.11			0.90	22.5	67.6	-2.9			Not required



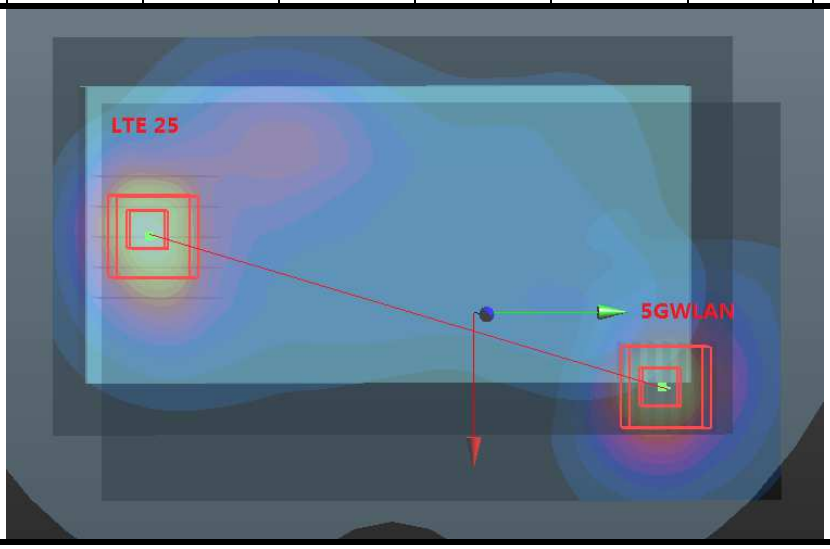
12									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4	Body	Rear Face	1.18	-9.0	-67.5	-1.5	138.7	0.022	SPLSR < 0.04,
802.11n			0.90	22.5	67.6	-2.9			Not required



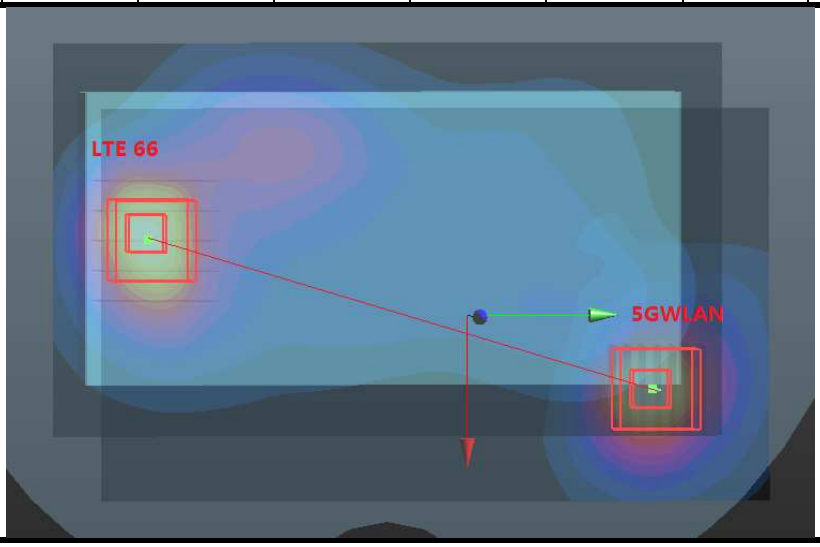
13									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 7	Body	Rear Face	1.19	13.5	-60.0	-3.2	127.9	0.024	SPLSR < 0.04,
802.11n			0.90	22.5	67.6	-2.9			Not required



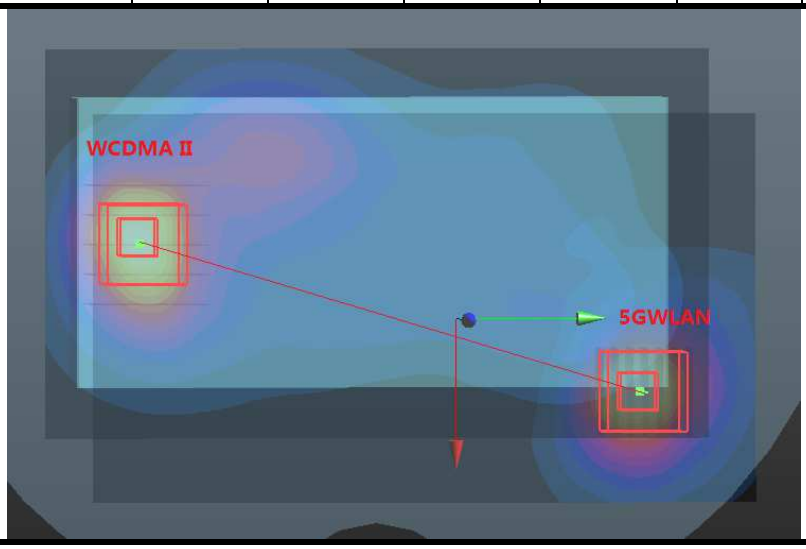
14									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25	Body	Rear Face	1.20	-6.1	-61.6	-1.5	132.3	0.023	SPLSR < 0.04,
802.11n			0.90	22.5	67.6	-2.9			Not required



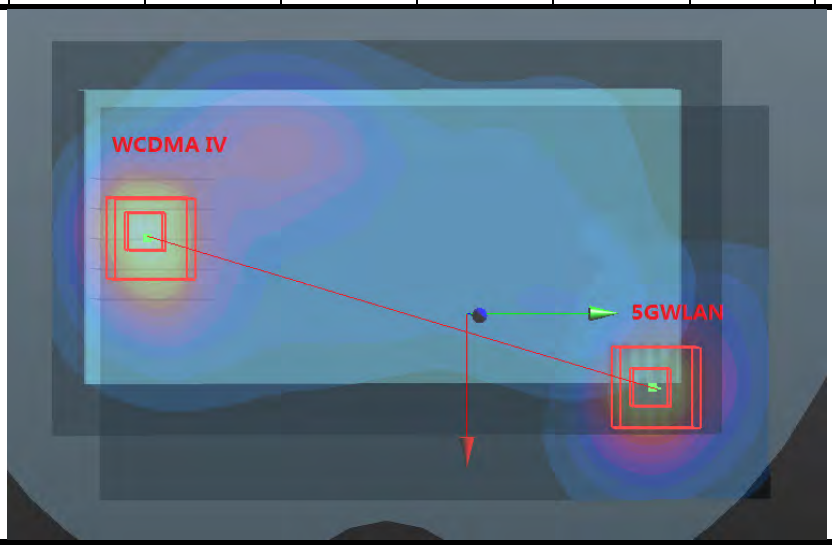
15									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 66	Body	Rear Face	1.39	-7.7	-61.6	-15.0	133.2	0.026	SPLSR < 0.04,
802.11n			0.90	22.5	67.6	-2.9			Not required



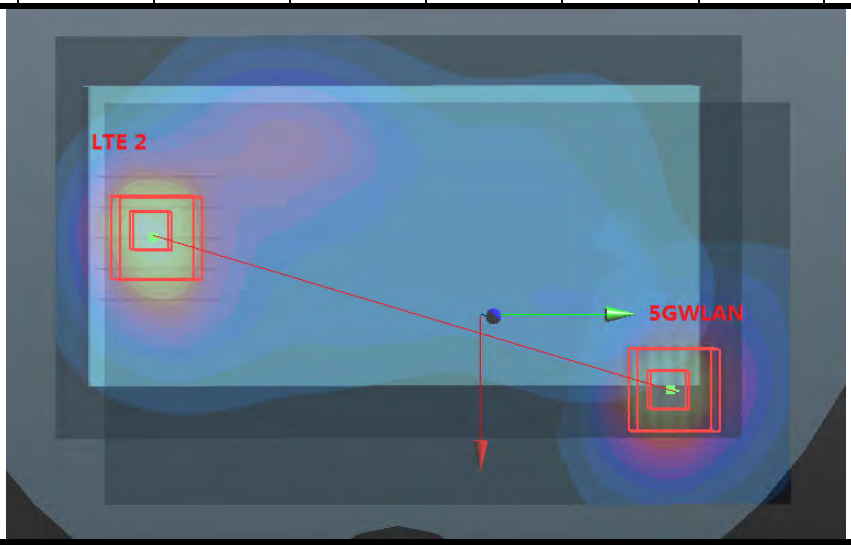
16									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II	Hotspot	Rear Face	1.34	-3.2	-64.5	-1.7	133.9	0.024	SPLSR < 0.04,
802.11a			0.84	22.5	66.9	-3.0			Not required



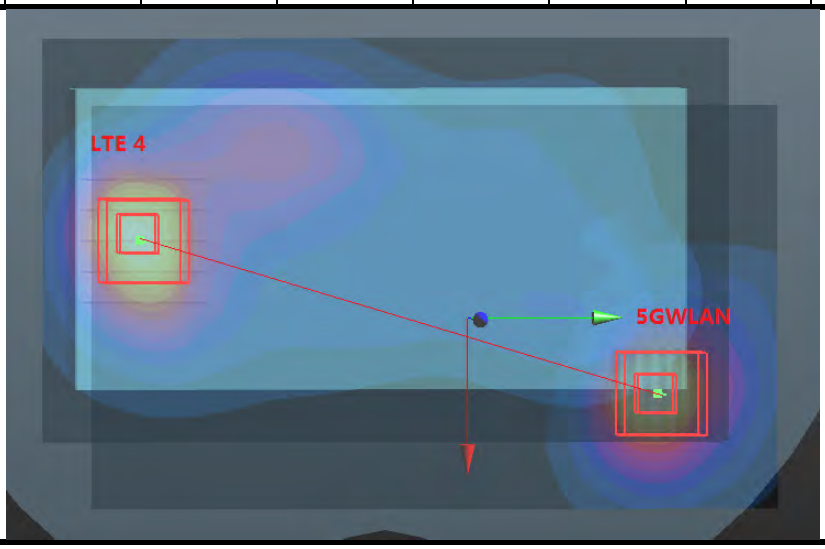
17									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV	Hotspot	Rear Face	1.32	-3.1	-64.5	-1.7	133.9	0.024	SPLSR < 0.04,
802.11a			0.84	22.5	66.9	-3.0			Not required



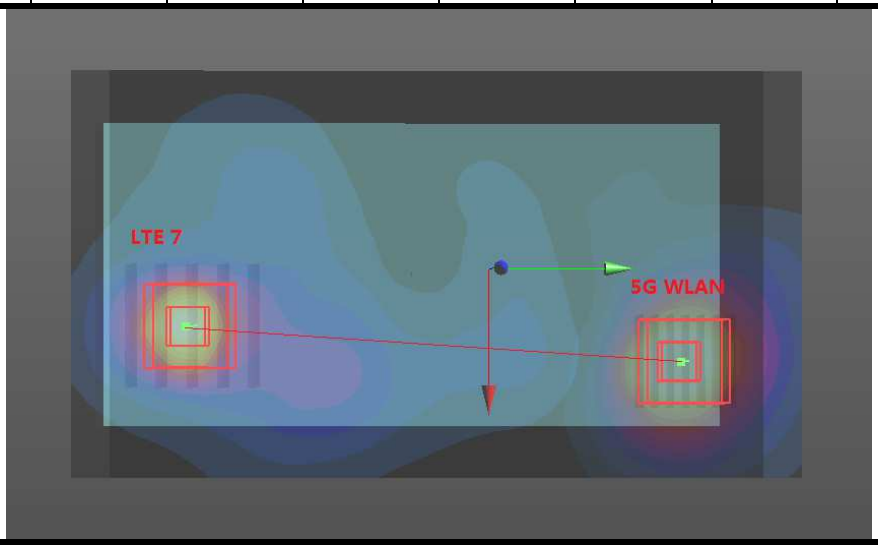
18									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 2	Hotspot	Rear Face	1.09	-9.2	-67.5	-1.5	138.1	0.019	SPLSR < 0.04,
802.11a			0.84	22.5	66.9	-3.0			Not required



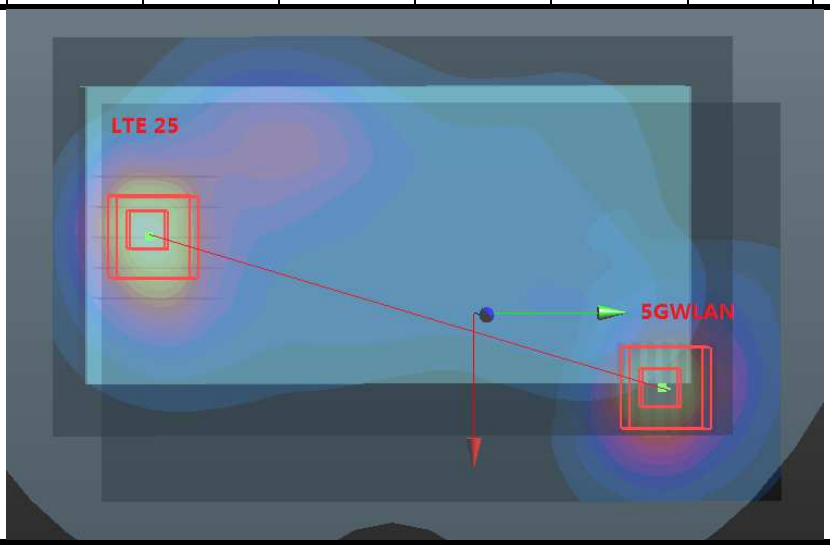
19									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4	Hotspot	Rear Face	1.18	-9.0	-67.5	-1.5	138.1	0.021	SPLSR < 0.04,
802.11a			0.84	22.5	66.9	-3.0			Not required



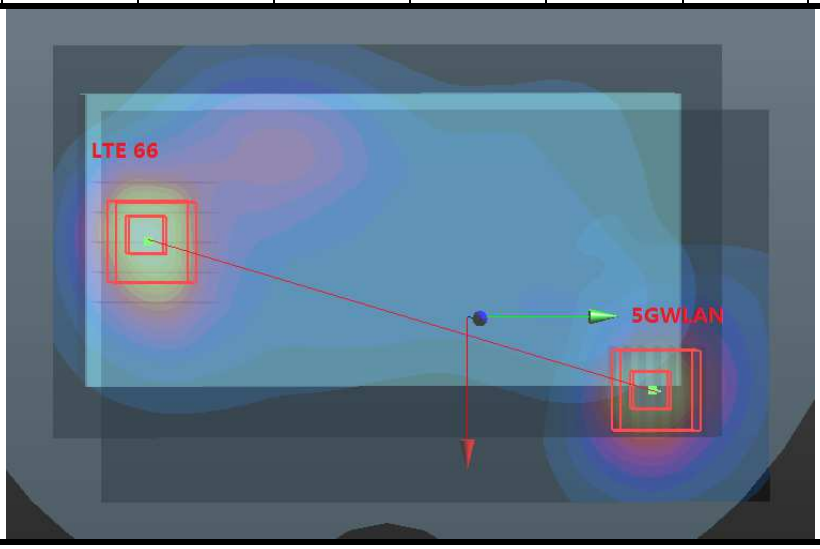
20									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 7	Hotspot	Rear Face	1.19	13.5	-60.0	-3.2	127.2	0.023	SPLSR < 0.04,
802.11a			0.84	22.5	66.9	-3.0			Not required



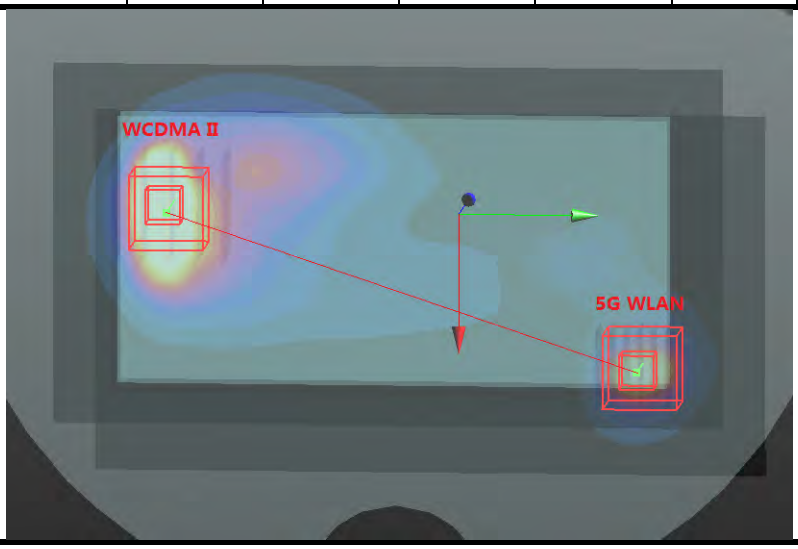
21									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25	Hotspot	Rear Face	1.20	-6.1	-61.6	-1.5	131.7	0.022	SPLSR < 0.04,
802.11a			0.84	22.5	66.9	-3.0			Not required



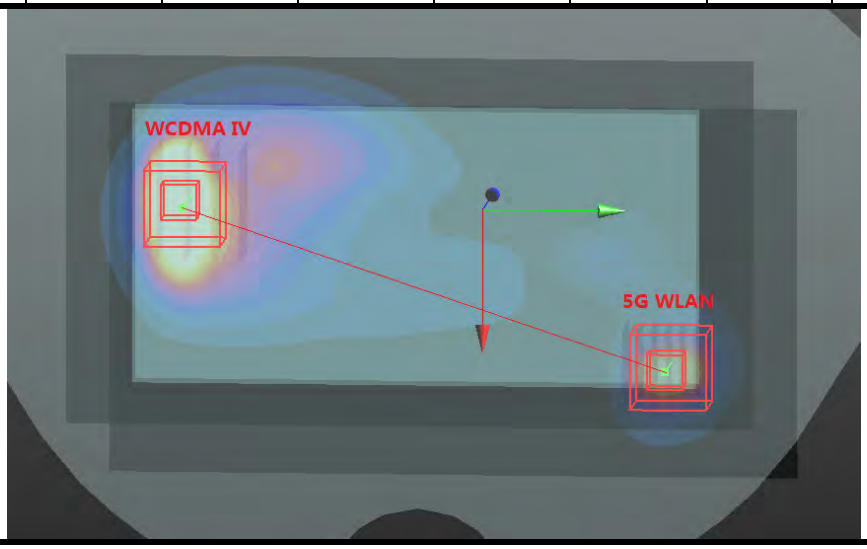
22									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 66	Hotspot	Rear Face	1.39	-7.7	-61.6	-1.5	132.0	0.025	SPLSR < 0.04,
802.11a			0.84	22.5	66.9	-3.0			Not required



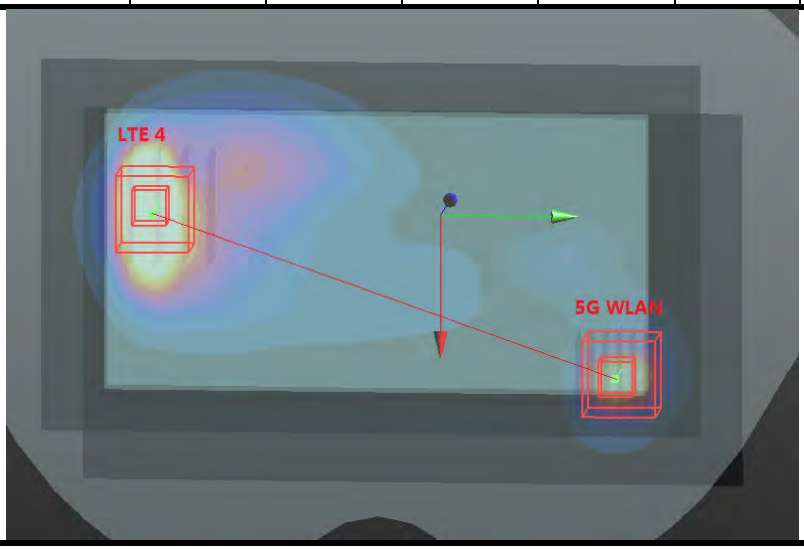
23									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA II	Extremity	Rear Face	3.58	-12.1	-67.0	-1.4	134.0	0.078	SPLSR < 0.1,
802.11n			1.19	-20.1	66.8	-2.7			Not required



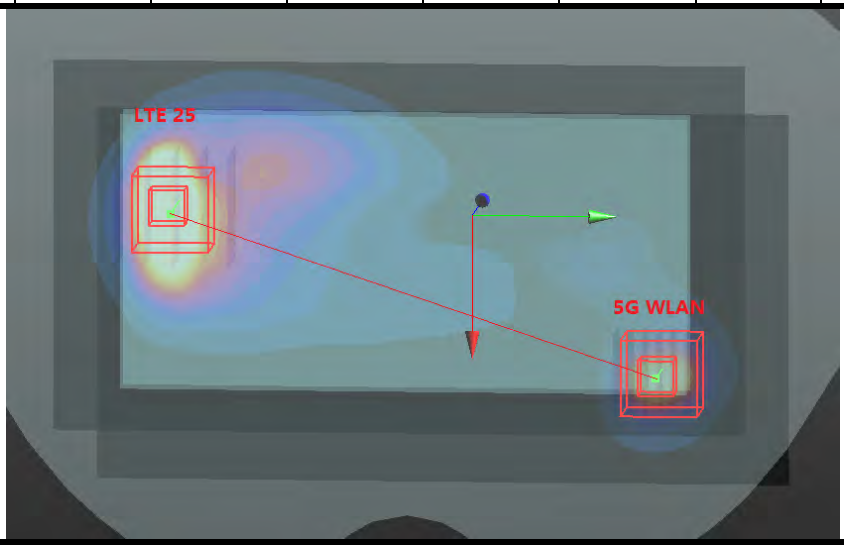
24									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
WCDMA IV	Extremity	Rear Face	3.06	-13.4	-68.5	-1.4	135.5	0.065	SPLSR < 0.1,
802.11n			1.19	-20.1	66.8	-2.7			Not required



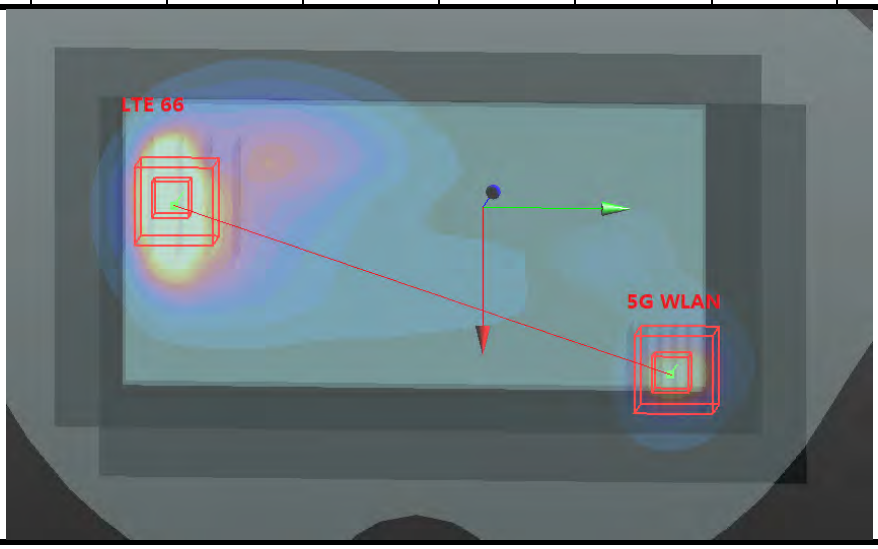
25									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 4	Extremity	Rear Face	3.14	-9.3	-70.1	-1.3	140.0	0.064	SPLSR < 0.1,
802.11n			1.19	20.1	66.8	-2.7			Not required



26									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 25	Extremity	Rear Face	3.25	-6.0	-68.5	-1.4	137.8	0.068	SPLSR < 0.1,
802.11n			1.19	20.1	66.8	-2.7			Not required



27									
Conditions	Exposure Condition	Test Position	SAR Value (W/kg)	Coordinates			Peak Location Separation Distance (R_i, mm)	SPLSR	Simultaneous Transmission SAR Test
				x	y	z			
LTE 66	Extremity	Rear Face	3.26	-9.3	-70.1	-1.3	140.0	0.067	SPLSR < 0.1,
802.11n			1.19	20.1	66.8	-2.7			Not required



Test Engineer： Xianxiong Qin

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1067	Aug. 27, 2017	1 Year
System Validation Dipole	SPEAG	D835V2	4d139	Aug. 28, 2017	1 Year
System Validation Dipole	SPEAG	D1750V2	1071	Aug. 26, 2017	1 Year
System Validation Dipole	SPEAG	D1900V2	5d159	Aug. 26, 2017	1 Year
System Validation Dipole	SPEAG	D2300V2	1053	Aug. 30, 2017	1 Year
System Validation Dipole	SPEAG	D2450V2	893	Aug. 29, 2017	1 Year
System Validation Dipole	SPEAG	D2600V2	1110	Aug. 29, 2017	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1133	Sep. 18, 2017	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3873	Aug. 25, 2017	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1341	Aug. 23, 2017	1 Year
Radio Communication Analyzer	ANRITSU	MT8820C	6201300717	Jul. 24, 2017	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50260600	Jun. 28, 2017	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214638	Jul. 24, 2017	1 Year
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510355	Jun. 27, 2017	1Year
MXG Analog Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 01, 2017	1 Year
Power Meter	Agilent	N1914A	MY52180044	Aug. 12, 2016	2 Years
Power Sensor	Agilent	E9304A H18	MY52050011	Dec. 27, 2016	1 Year
Power Meter	Agilent	ML2495A	1506002	Mar. 01, 2017	1 Year
Power Sensor	Agilent	MA2411B	1339353	Mar. 01, 2017	1 Year
Temp. & Humi. Recorder	CLOCK	HTC-1	157248	Jul. 26, 2017	1 Year
Electronic Thermometer	YONGFA	YF-160A	120100323	Sep. 22, 2017	1 Year
Coupler	Woken	0110A056020-10	COM27RW1A3	Sep. 20, 2017	1 Year

6. Measurement Uncertainty

Source of Uncertainty	Tolerance (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	Rectangular	√3	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.707	0.707	3.9	3.9	∞
Boundary Effect	1.0	Rectangular	√3	1	1	0.6	0.6	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
System Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions - Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom Shell	2.9	Rectangular	√3	1	1	1.7	1.7	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Test Sample Related								
Test Sample Positioning	1.5 / 0.7	Normal	1	1	1	1.5	0.7	32
Device Holder Uncertainty	4.2 / 1.8	Normal	1	1	1	4.2	1.8	32
Output Power Variation - SAR Drift Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.2	Rectangular	√3	1	1	4.2	4.2	∞
Liquid Conductivity - Deviation from Target Values	5.0	Rectangular	√3	0.64	0.43	1.8	1.2	∞
Liquid Conductivity - Measurement Uncertainty	1.0	Normal	1	0.64	0.43	0.6	0.4	25
Liquid Permittivity - Deviation from Target Values	5.0	Rectangular	√3	0.60	0.49	1.7	1.4	∞
Liquid Permittivity - Measurement Uncertainty	0.5	Normal	1	0.60	0.49	0.3	0.2	25
Combined Standard Uncertainty						± 11.2 %	± 10.4 %	
Expanded Uncertainty (K=2)						**± 22.4 %**	**± 20.8 %**	

Uncertainty budget for frequency range 300 MHz to 3 GHz

Source of Uncertainty	Tolerance (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	∞
Axial Isotropy	4.7	Rectangular	√3	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.707	0.707	3.9	3.9	∞
Boundary Effect	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
System Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions - Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom Shell	6.7	Rectangular	√3	1	1	3.9	3.9	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	4.0	Rectangular	√3	1	1	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	1.5 / 0.7	Normal	1	1	1	1.5	0.7	32
Device Holder Uncertainty	4.2 / 1.8	Normal	1	1	1	4.2	1.8	32
Output Power Variation - SAR Drift Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.6	Rectangular	√3	1	1	4.4	4.4	∞
Liquid Conductivity - Deviation from Target Values	5.0	Rectangular	√3	0.64	0.43	1.8	1.2	∞
Liquid Conductivity - Measurement Uncertainty	1.0	Normal	1	0.64	0.43	0.6	0.4	25
Liquid Permittivity - Deviation from Target Values	5.0	Rectangular	√3	0.60	0.49	1.7	1.4	∞
Liquid Permittivity - Measurement Uncertainty	0.5	Normal	1	0.60	0.49	0.3	0.2	25
Combined Standard Uncertainty						± 12.3 %	± 11.5 %	
Expanded Uncertainty (K=2)						**± 24.6 %**	**± 23.0 %**	

Uncertainty budget for frequency range 3 GHz to 6 GHz

7. Information on the Testing Laboratories

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 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:

Add: No. B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industry Park, Nanshan District, Shenzhen, Guangdong, China
Tel: 86-755-8869-6566
Fax: 86-755-8869-6577

Email: customerservice.dg@cn.bureauveritas.com
Web Site: www.bureauveritas.com

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.

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/11/21

System Check_H750_171121

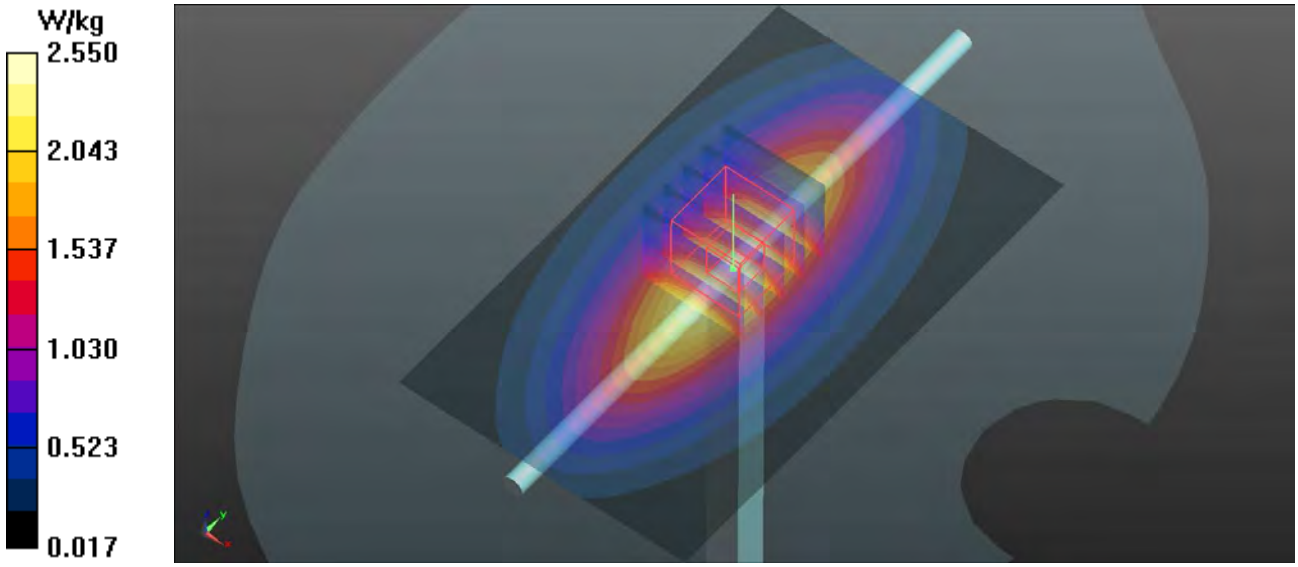
DUT: Dipole:750 MHz;Type:D750V3;SN:1067

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: H750_1121 Medium parameters used: f = 750 MHz; σ = 0.908 S/m; ε_r = 40.492; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(10.08, 10.08, 10.08); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.55 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.02 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.96 W/kg
SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.38 W/kg
Maximum value of SAR (measured) = 2.57 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/11/22

System Check_H835_171122

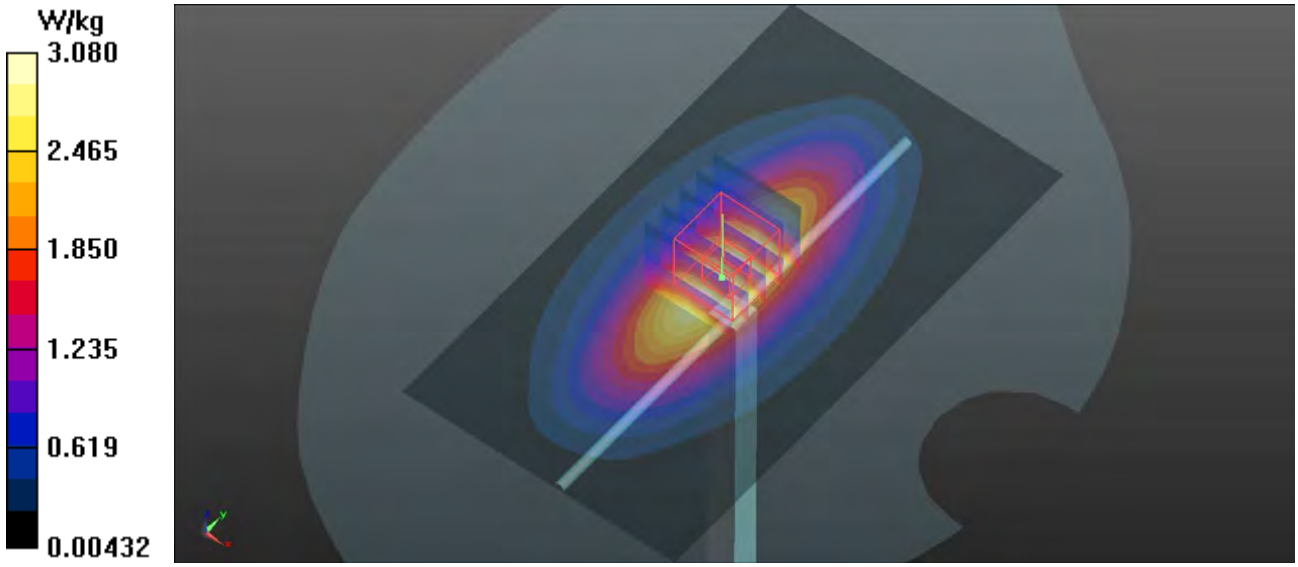
DUT: Dipole 835 MHz;Type:D835V2; SN:4d139

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: H835_1122 Medium parameters used: f = 835 MHz; σ = 0.92 S/m; ε_r = 43.008; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.74, 9.74, 9.74); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.08 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.70 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.53 W/kg
SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.57 W/kg
Maximum value of SAR (measured) = 3.18 W/kg



System Check_H1750_171125

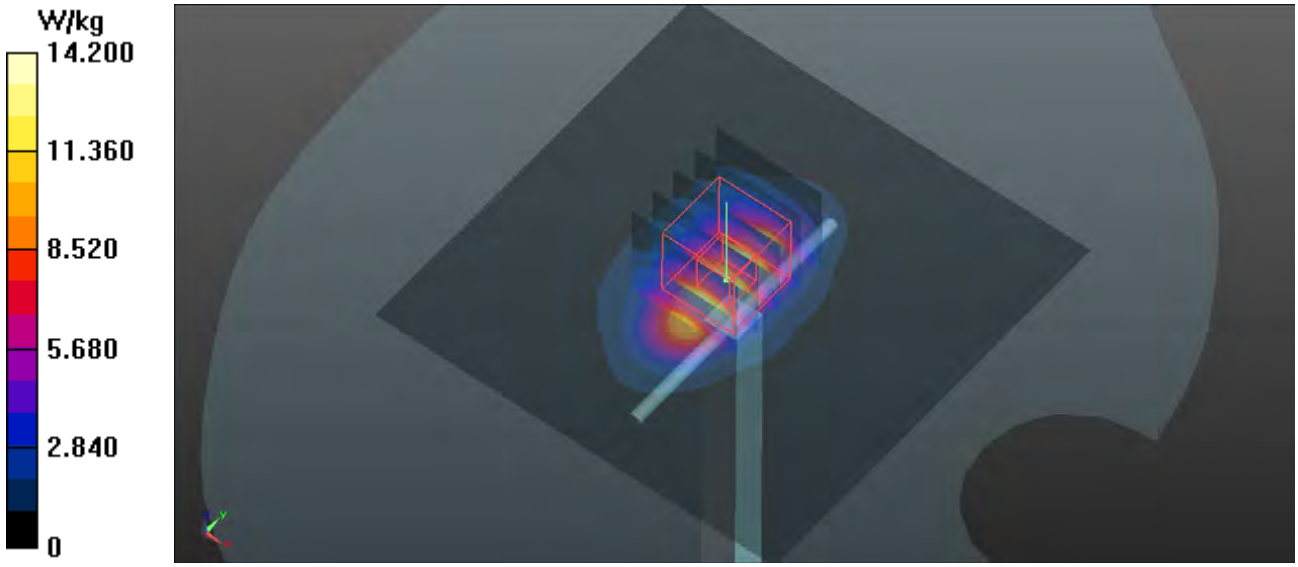
DUT: Dipole 1750 MHz;Type:D1750V2; SN:1071

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: H1750_1125 Medium parameters used: f = 1750 MHz; σ = 1.413 S/m; ε_r = 41.34; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.62, 8.62, 8.62); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): 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 = 96.99 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 9.55 W/kg; SAR(10 g) = 5.02 W/kg
Maximum value of SAR (measured) = 14.8 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/11/26

System Check_H1900_171126

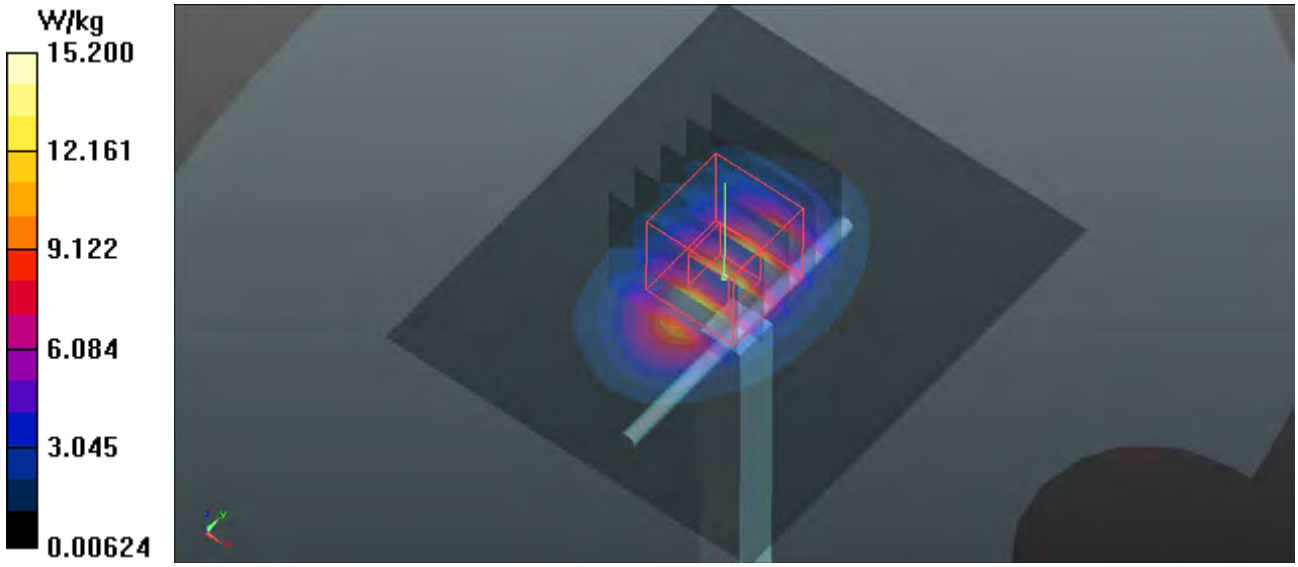
DUT: Dipole 1900 MHz;Type:D1900V2; SN:5d159

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: H1900_1126 Medium parameters used: f = 1900 MHz; σ = 1.384 S/m; ε_r = 39.804; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.37, 8.37, 8.37); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 15.2 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 99.69 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 18.2 W/kg
SAR(1 g) = 9.95 W/kg; SAR(10 g) = 5.18 W/kg
Maximum value of SAR (measured) = 14.3 W/kg



System Check_H2300_171201

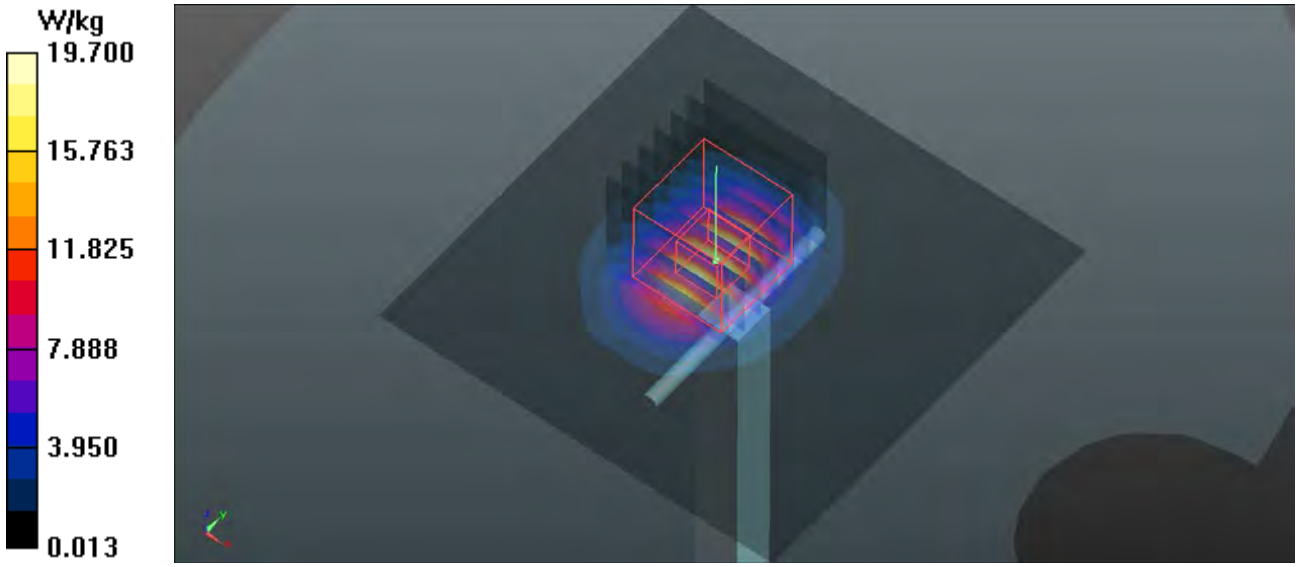
DUT: Dipole 2300 MHz;Type:D2300V2; SN:1053

Communication System: CW; Frequency: 2300 MHz;Duty Cycle: 1:1
Medium: H2300_1201 Medium parameters used: f = 2300 MHz; σ = 1.635 S/m; ε_r = 38.872; ρ = 1000 kg/m^3
Ambient Temperature：22.9 ℃; Liquid Temperature：21.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.85, 7.85, 7.85); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- 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) = 19.7 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 101.4 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 21.6 W/kg
SAR(1 g) = 11.9 W/kg; SAR(10 g) = 5.72 W/kg
Maximum value of SAR (measured) = 18.0 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/12/03

System Check_H2450_171203

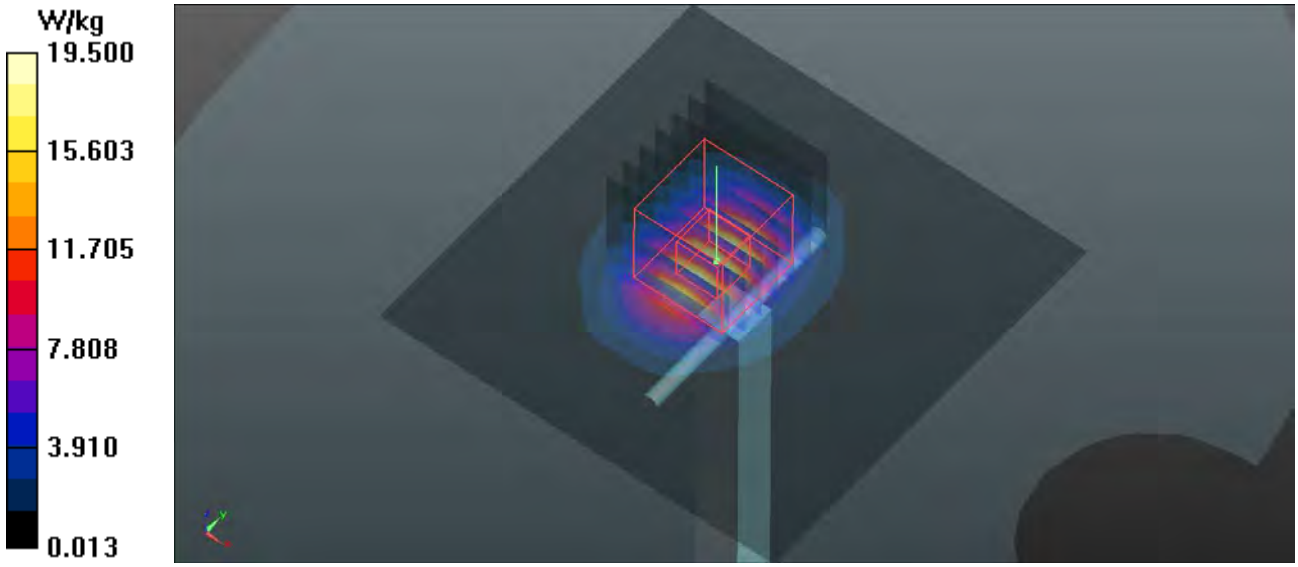
DUT: Dipole 2450 MHz; Type:D2450V2; SN:893

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: H2450_1203 Medium parameters used: f = 2450 MHz; σ = 1.782 S/m; ε_r = 40.2; ρ = 1000 kg/m^3
Ambient Temperature：22.7 ℃; Liquid Temperature：21.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.36, 7.36, 7.36); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- 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) = 19.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.38 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 27.7 W/kg
SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.58 W/kg
Maximum value of SAR (measured) = 19.7 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/12/04

System Check_H2600_171204

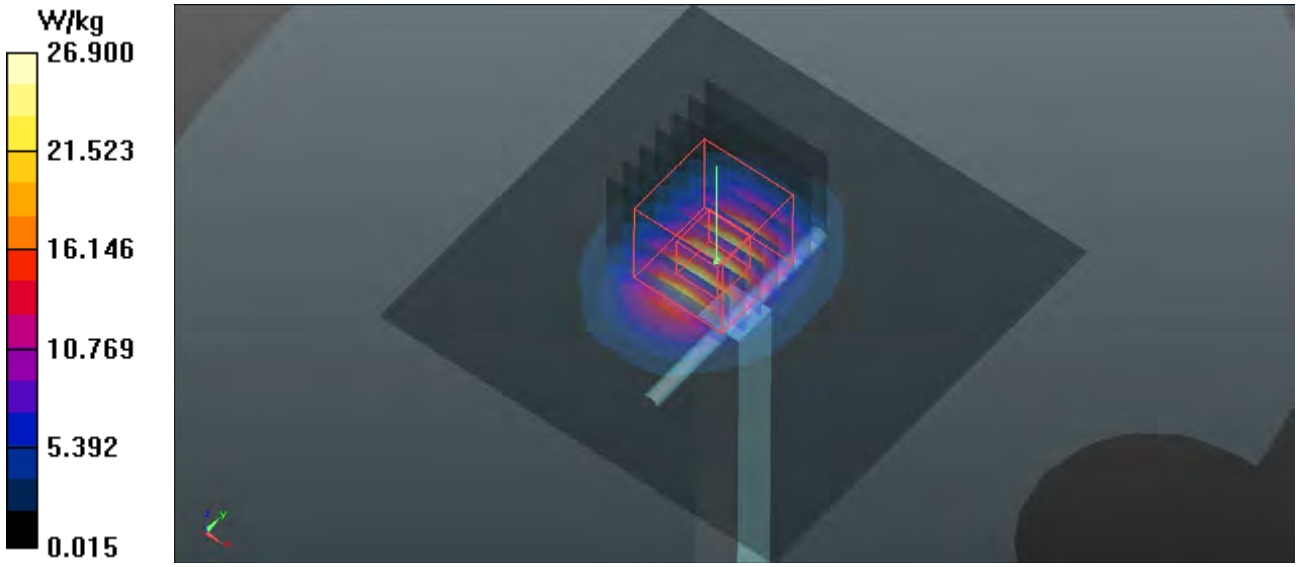
DUT: Dipole 2600 MHz;Type:D2600V2; SN:1110

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: H2600_1204 Medium parameters used: f = 2600 MHz; σ = 1.987 S/m; ε_r = 37.616; ρ = 1000 kg/m^3
Ambient Temperature：22.9 ℃; Liquid Temperature：21.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.17, 7.17, 7.17); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- 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) = 26.9 W/kg

Pin=250mW/Zoom Scan(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 107.0 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 30.4 W/kg
SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.42 W/kg
Maximum value of SAR (measured) = 24.4 W/kg



System Check_H5250_171206

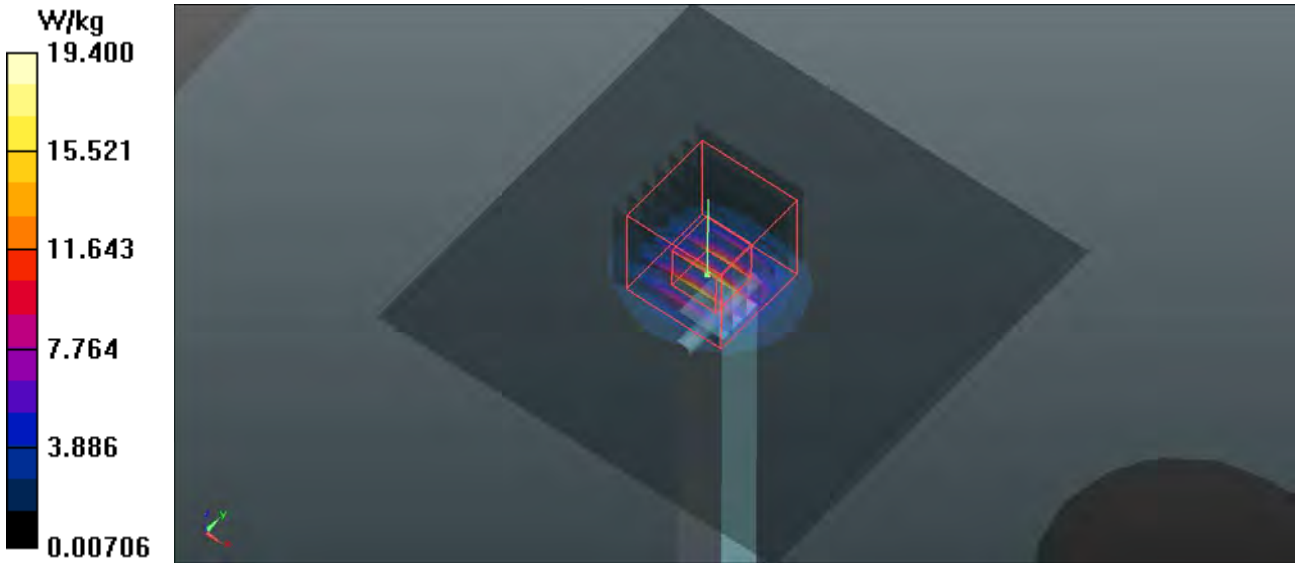
DUT: Dipole 5GHzV2;Type:D5GHzV2; SN:1133

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: H5G_1206 Medium parameters used: f = 5250 MHz; σ = 4.744 S/m; ε_r = 36.854; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(5.04, 5.04, 5.04); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- 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) = 19.4 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 55.12 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 33.9 W/kg
SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.28 W/kg
Maximum value of SAR (measured) = 20.6 W/kg



System Check_H5600_171207

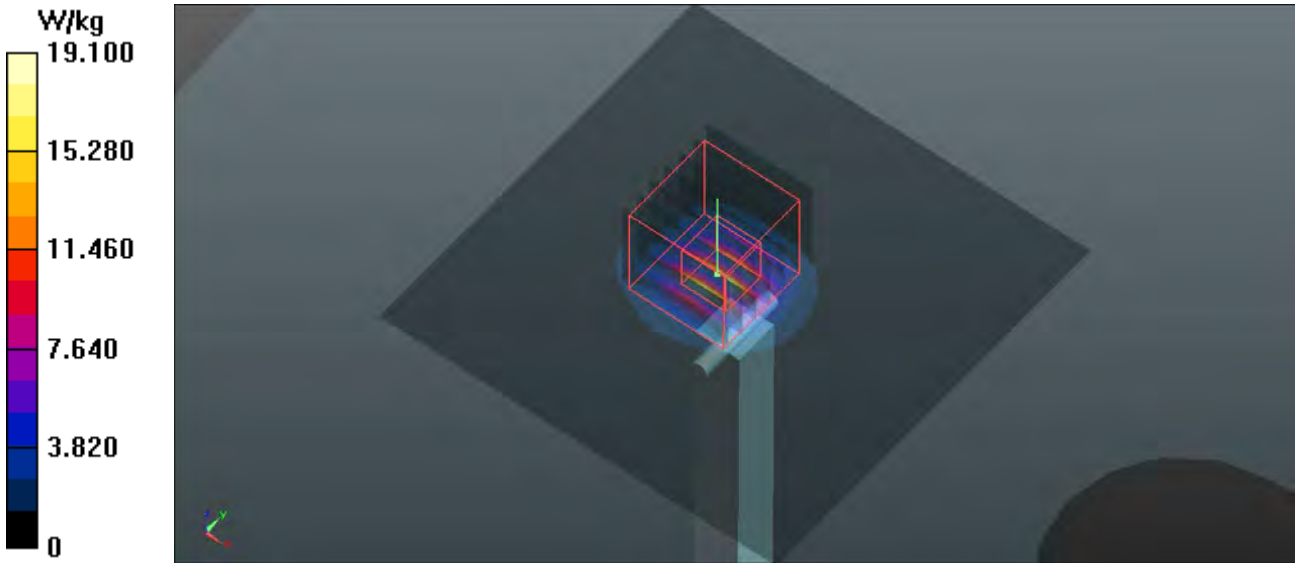
DUT: Dipole 5GHzV2;Type:D5GHzV2; SN:1133

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: H5G_1207 Medium parameters used: f = 5600 MHz; σ = 5.034 S/m; ε_r = 36.508; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(4.66, 4.66, 4.66); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- 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) = 19.1 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 56.49 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 34.3 W/kg
SAR(1 g) = 7.85 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 20.4 W/kg



System Check_H5800_171208

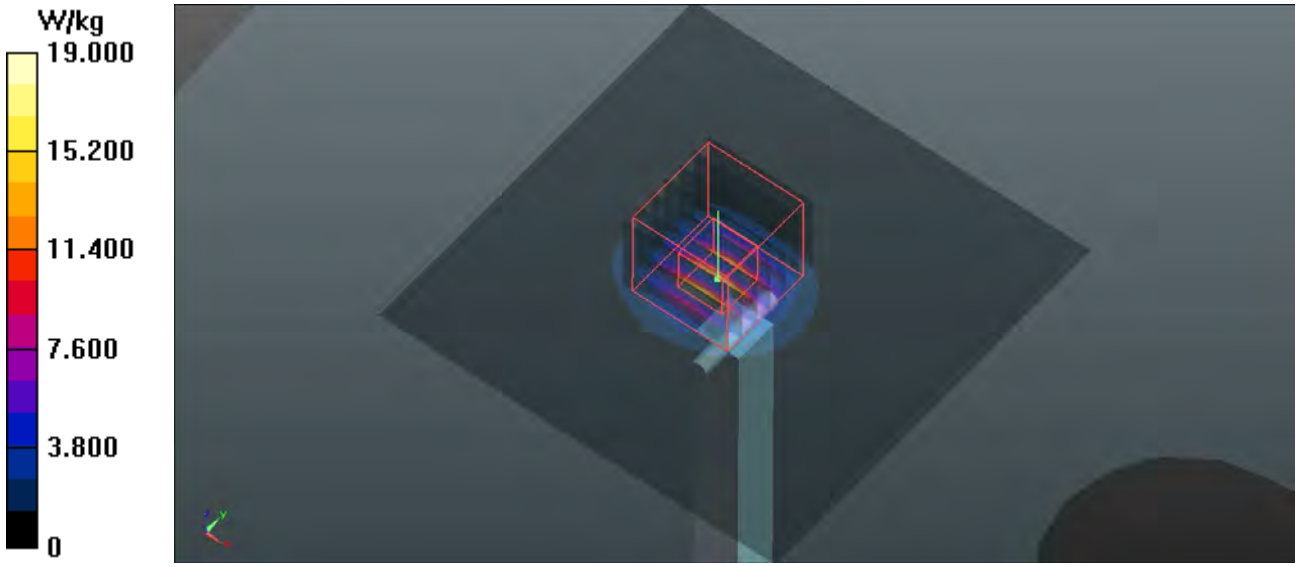
DUT: Dipole 5GHzV2;Type:D5GHzV2; SN:1133

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium: H5G_1208 Medium parameters used: f = 5800 MHz; σ = 5.369 S/m; ε_r = 35.45; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(4.7, 4.7, 4.7); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- 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) = 19.0 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 55.03 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 35.2 W/kg
SAR(1 g) = 7.68 W/kg; SAR(10 g) = 2.15 W/kg
Maximum value of SAR (measured) = 20.4 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/11/23

System Check_B750_171123

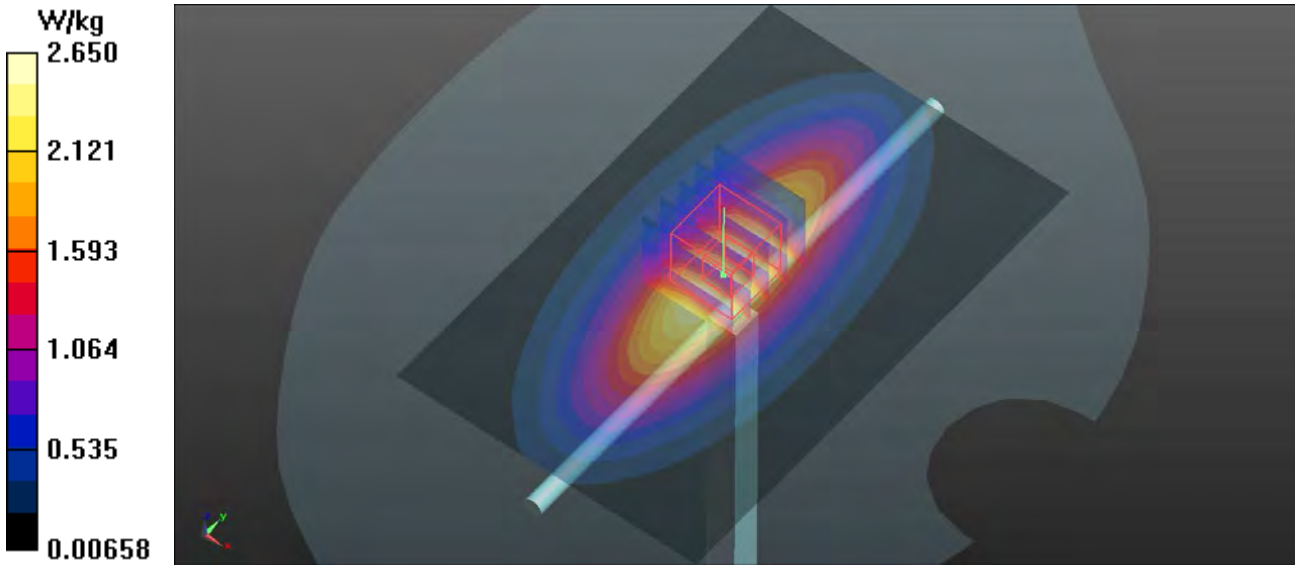
DUT: Dipole:750 MHz;Type:D750V3;SN:1067

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: B750_1123 Medium parameters used: f = 750 MHz; σ = 0.967 S/m; ε_r = 55.261; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.72, 9.72, 9.72); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.65 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 51.80 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 3.01 W/kg
SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.44 W/kg
Maximum value of SAR (measured) = 2.62 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/11/24

System Check_B835_171124

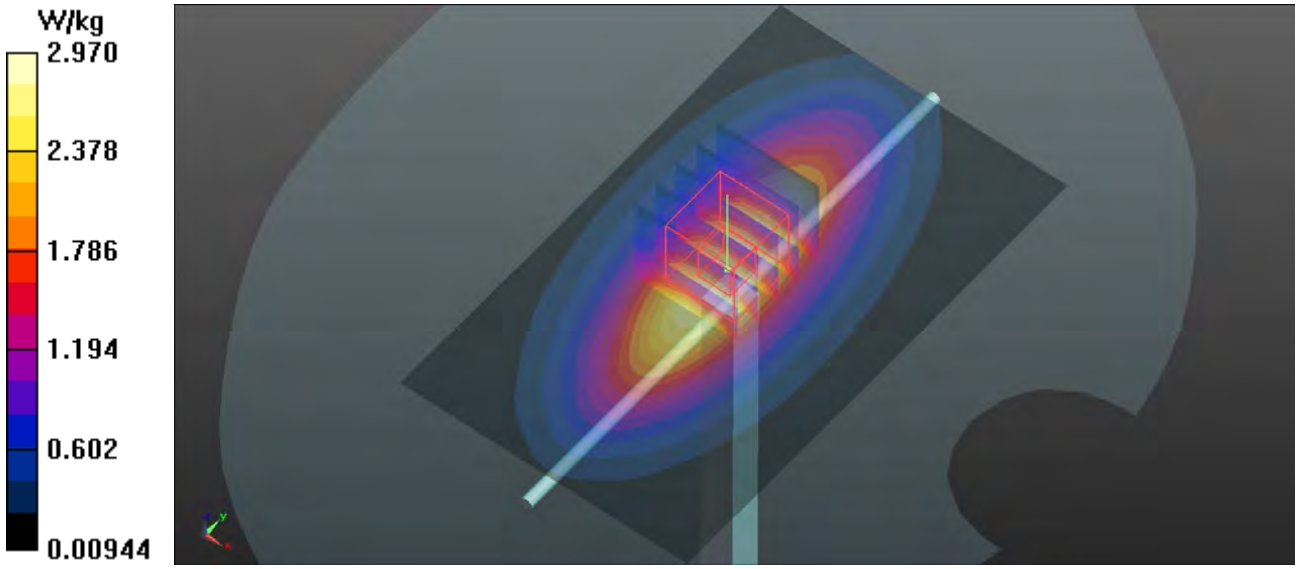
DUT: Dipole:835 MHz; Type:D835V2; SN:4d139

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: B835_1124 Medium parameters used: f = 835 MHz; σ = 0.992 S/m; ε_r = 54.672; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.62, 9.62, 9.62); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.97 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.50 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.46 W/kg
SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.58 W/kg
Maximum value of SAR (measured) = 2.97 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/11/27

System Check_B1750_171127

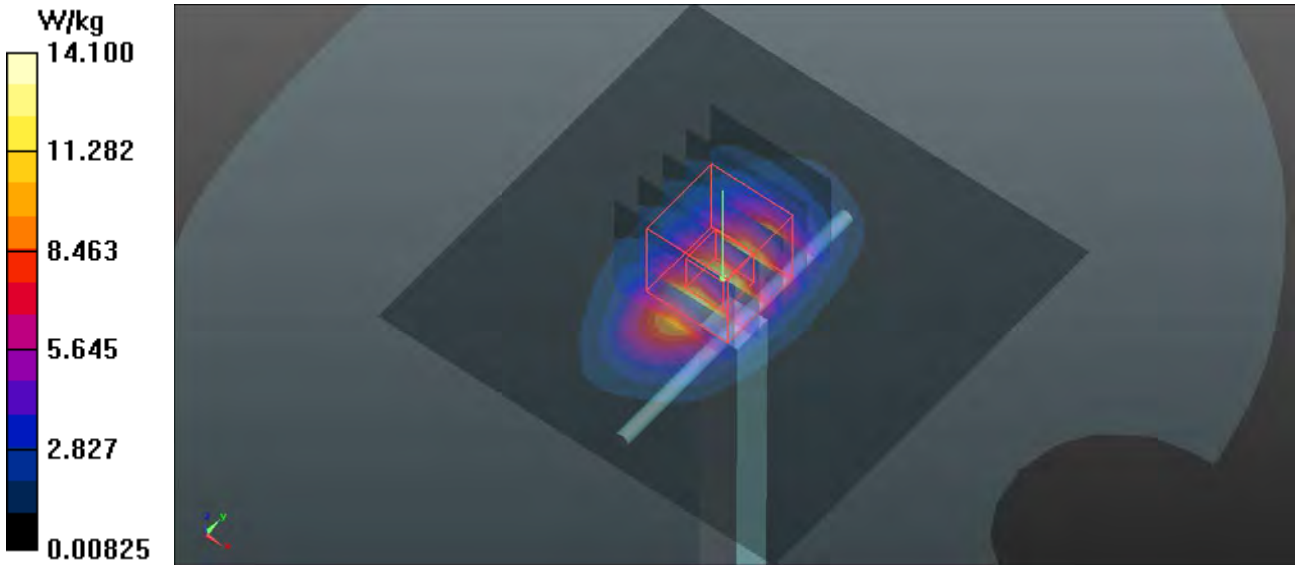
DUT: Dipole 1750 MHz;Type:D1750V2; SN:1071

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: B1750_1127 Medium parameters used: f = 1750 MHz; σ = 1.492 S/m; ε_r = 51.975; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.04, 8.04, 8.04); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.1 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 93.56 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 17.1 W/kg
SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.26 W/kg
Maximum value of SAR (measured) = 14.8 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/11/29

System Check_B1900_171129

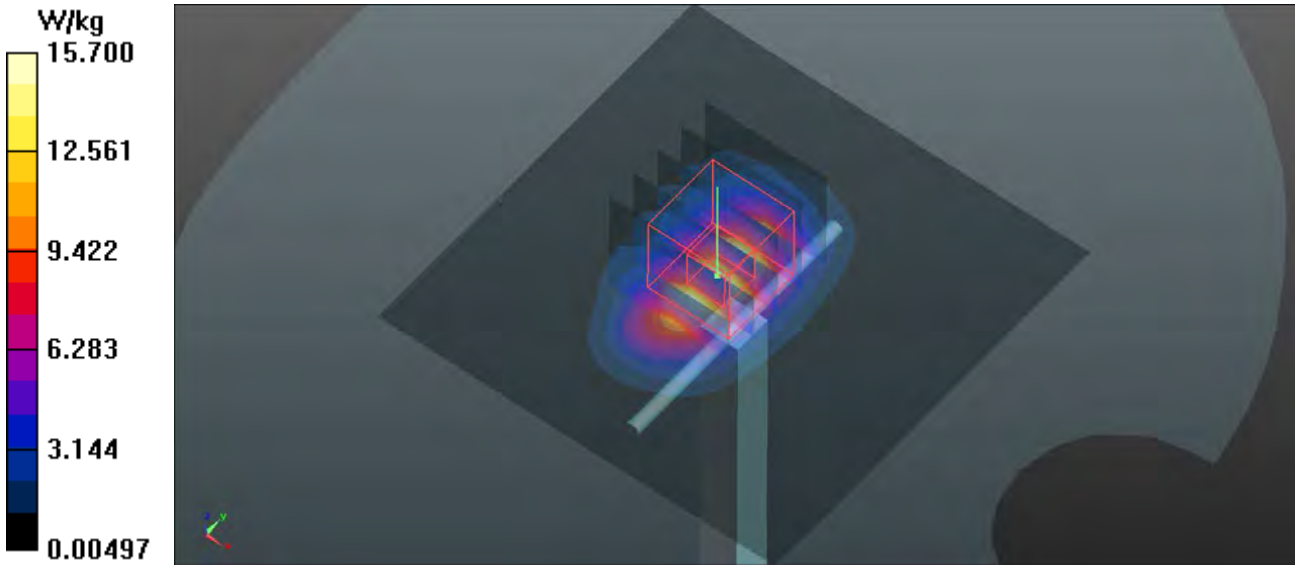
DUT: Dipole: 1900MHz;Type:D1900V2; SN:5d159

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: B1900_1129 Medium parameters used: f = 1900 MHz; σ = 1.537 S/m; ε_r = 51.977; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.77, 7.77, 7.77); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 15.7 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 95.15 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 19.1 W/kg
SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.54 W/kg
Maximum value of SAR (measured) = 16.2 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/12/02

System Check_B2300_171202

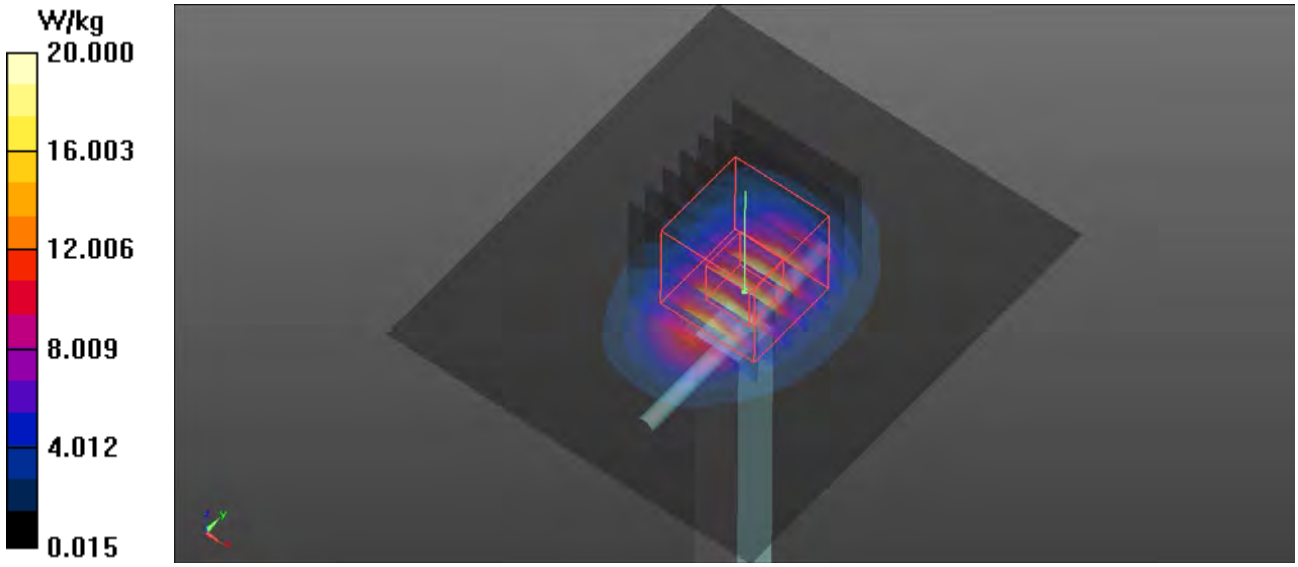
DUT: Dipole 2300 MHz;Type:D2300V2; SN:1053

Communication System: CW; Frequency: 2300 MHz;Duty Cycle: 1:1
Medium: B2300_1202 Medium parameters used: f = 2300 MHz; σ = 1.799 S/m; ε_r = 51.373; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.56, 7.56, 7.56); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 20.0 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 100.2 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 24.3 W/kg
SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.91 W/kg
Maximum value of SAR (measured) = 20.1 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/12/03

System Check_B2450_171203

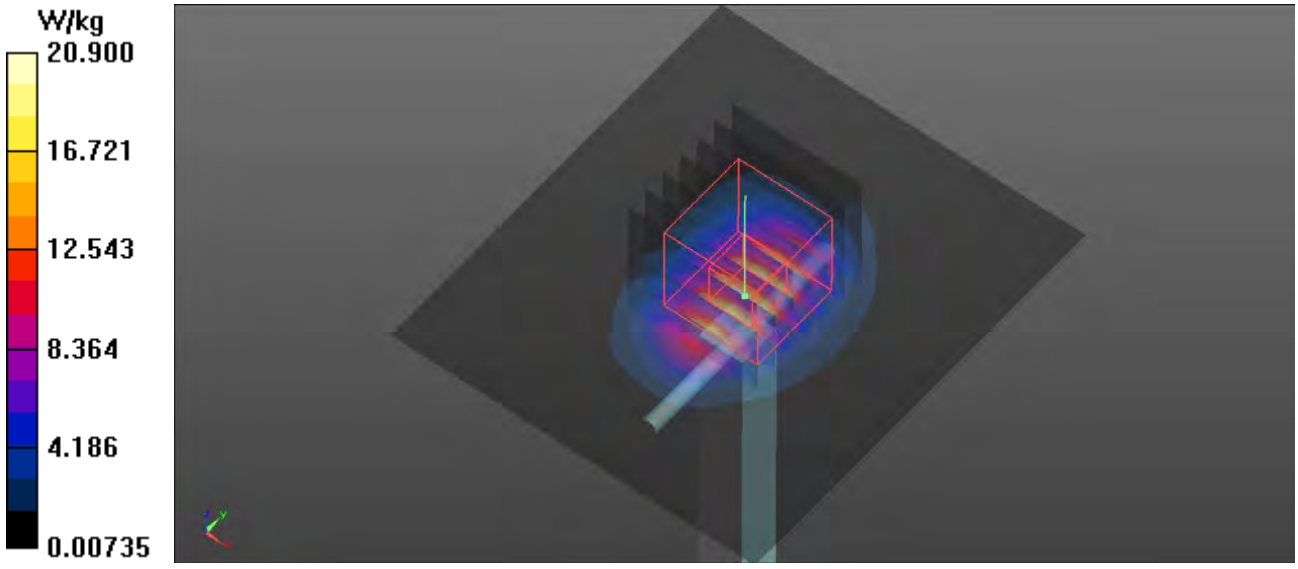
DUT: Dipole 2450 MHz;Type:D2450V2; SN:893

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: B2450_1203 Medium parameters used: f = 2450 MHz; σ = 2.024 S/m; ε_r = 53.364; ρ = 1000 kg/m^3
Ambient Temperature：22.7 ℃; Liquid Temperature：21.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.45, 7.45, 7.45); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 20.9 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.52 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 25.5 W/kg
SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.12 W/kg
Maximum value of SAR (measured) = 21.0 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2017/12/05

System Check_B2600_171205

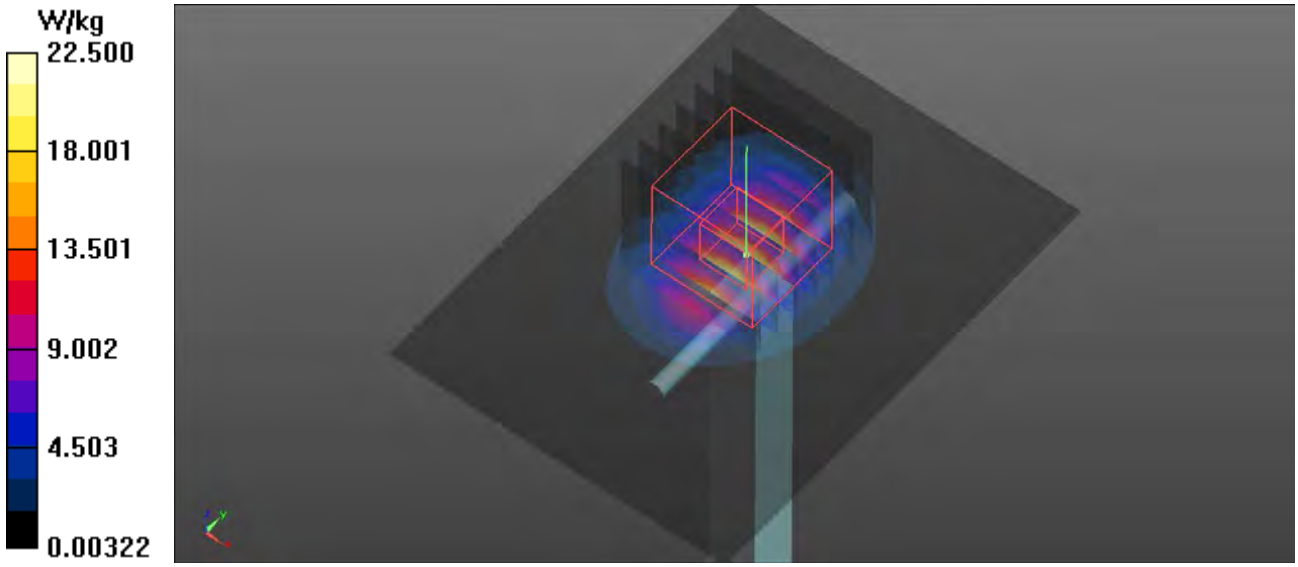
DUT: Dipole 2600 MHz;Type:D2600V2; SN:1110

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: B2600_1205 Medium parameters used: f = 2600 MHz; σ = 2.096 S/m; ε_r = 50.743; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.19, 7.19, 7.19); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1205
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 22.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.57 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 26.9 W/kg
SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.64 W/kg
Maximum value of SAR (measured) = 21.7 W/kg



System Check_B5250_171209

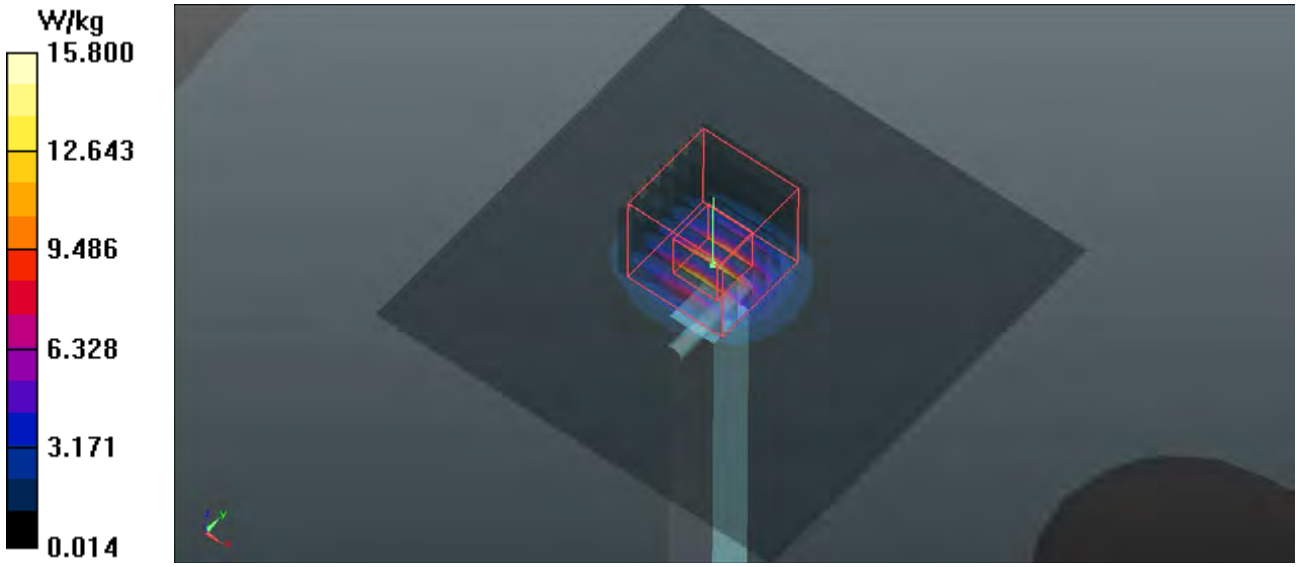
DUT: Dipole D5GHzV2;Type:D5GHzV2; SN:1133

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: B5G_1209 Medium parameters used: f = 5250 MHz; σ = 5.262 S/m; ε_r = 51.004; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃； Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(4.61, 4.61, 4.61); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- 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) = 15.8 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 49.94 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 28.0 W/kg
SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.15 W/kg
Maximum value of SAR (measured) = 16.5 W/kg



System Check_B5600_171210

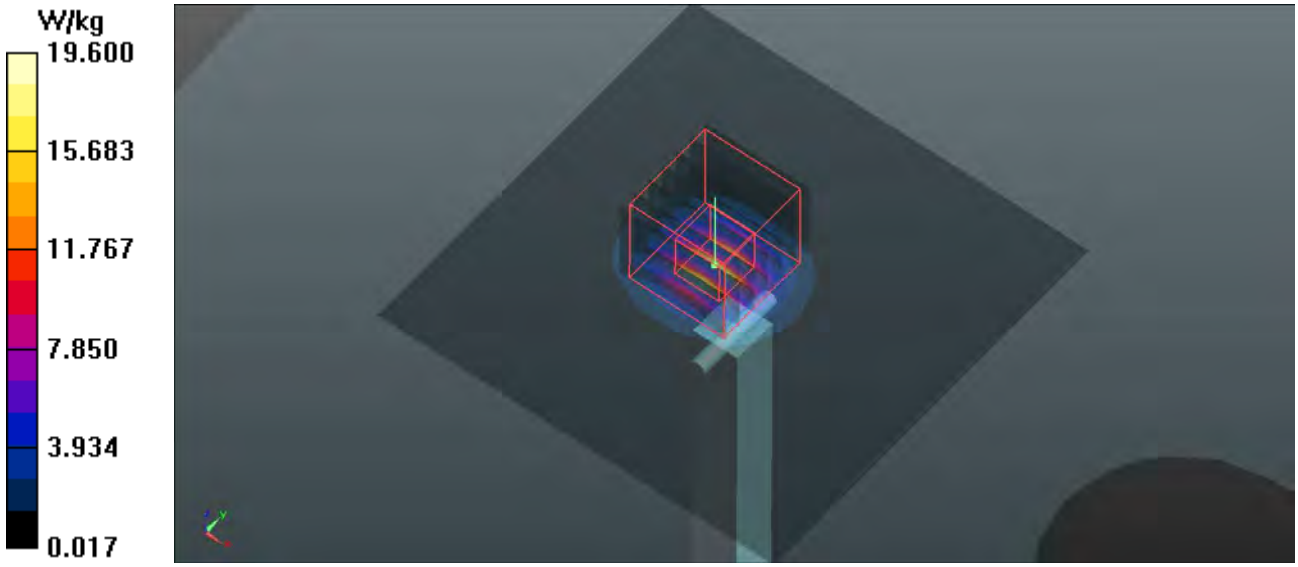
DUT: Dipole D5GHzV2;Type:D5GHzV2; SN:1133

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: B5G_1210 Medium parameters used: f = 5600 MHz; σ = 5.851 S/m; ε_r = 50.235; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- 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) = 19.6 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 48.86 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 33.0 W/kg
SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.22 W/kg
Maximum value of SAR (measured) = 20.5 W/kg



System Check_B5800_171211

DUT: Dipole D5GHzV2;Type:D5GHzV2; SN:1133

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium: B5G_1211 Medium parameters used: f = 5800 MHz; σ = 6.155 S/m; ε_r = 49.875; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(4.16, 4.16, 4.16); Calibrated: 2017/08/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2017/08/23
- Phantom: Left Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1722
- 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) = 16.2 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 49.77 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 30.0 W/kg
SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.11 W/kg
Maximum value of SAR (measured) = 17.7 W/kg